

**Set Name**    **Query**  
side by side

**Hit Count** **Set Name**  
result set

*DB: USPT,PGPB,JPAB,EPAB,DWPI,TDBD; THES ASSIGNEE;  
PLUR YES; OP AND*

<u>L22</u>	L21 and ((signal adj sequence) adj trap)	2	<u>L22</u>
<u>L21</u>	Honjo-Tasuku.in.	35	<u>L21</u>
<u>L20</u>	L13 and ((signal adj sequence) adj trap)	0	<u>L20</u>
<u>L19</u>	L16 and ((signal adj sequence) adj trap)	0	<u>L19</u>
<u>L18</u>	L17 and ((signal adj sequence) adj trap)	0	<u>L18</u>
<u>L17</u>	L16 and (trapping adj (signal adj sequence))	0	<u>L17</u>
<u>L16</u>	L15 and (screening or screen)	196	<u>L16</u>
<u>L15</u>	L14 and (library or libraries)	203	<u>L15</u>
<u>L14</u>	L13 and (vector adj system)	212	<u>L14</u>
<u>L13</u>	(EBV-based) or (polyoma-based)	248	<u>L13</u>
<u>L12</u>	L7 and (replication adj factor)	13	<u>L12</u>
<u>L11</u>	L9 not L10	30	<u>L11</u>
<u>L10</u>	L9 and (expression adj (library or libraries))	12	<u>L10</u>
<u>L9</u>	(episomal adj vector) same (ES or EC or EG)	42	<u>L9</u>
<u>L8</u>	L7 and ((first or second) adj vector)	26	<u>L8</u>
<u>L7</u>	L6 same (vectors)	278	<u>L7</u>
<u>L6</u>	(episomal) same (ES)	381	<u>L6</u>
<u>L5</u>	Gassmann-Max.in.	1	<u>L5</u>
<u>L4</u>	Fahl-william-E\$.in.	4	<u>L4</u>
<u>L3</u>	Smith-austin-G\$.in.	8	<u>L3</u>
<u>L2</u>	Blackburn-clare-catherine.in.	0	<u>L2</u>
<u>L1</u>	Blackburn-catherine-claire.in.	0	<u>L1</u>

END OF SEARCH HISTORY

### Status: Path 1 of [Dialog Information Services via Modem]

### Status: Initializing TCP/IP using UseTelnetProto 1 ServiceID pto-dialog;  
Trying 31060000009999...Open.

DIALOG INFORMATION SERVICES

PLEASE LOGIN:

\*\*\*\*\* HHHHHHHH SSSSSSSS?

### Status: Signing into Dialog

\*\*\*\*\*

ENTER PASSWORD:

\*\*\*\*\* HHHHHHHH SSSSSSSS? \*\*\*\*\*

Welcome to DIALOG

### Status: Connected

Dialog level 12.12.41D

Last logoff: 31jan03 16:48:50

Login file101 15feb03 16:38:23

\*\*\* ANNOUNCEMENT \*\*\*

\*\*\*

--File 515 B&B Dan's Electronic Business Directory is now online  
completely updated and redesigned. For details, see HELP NEWS 515.

\*\*\*

--File 990 - NewsRoom now contains October 2002 to present records.  
File 993 - NewsRoom archive contains 2002 records from January 2002-  
September 2002. To search all 2002 records, BEGIN 990,993 or B NEWS2002

\*\*\*

--Alerts have been enhanced to allow a single Alert profile to be  
stored and run against multiple files. Duplicate removal is available  
across files and for up to 12 months. The Alert may be run according  
to the file's update frequency or according to a custom  
calendar-based schedule. There are no additional prices for these  
enhanced features. See HELP ALERT for more information.

\*\*\*

--U.S. Patents Fulltext (File 654) has been redesigned with  
new search and display features. See HELP NEWS 654 for  
information.

\*\*\*

--Connect Time joins DialUnits as pricing options on Dialog.  
See HELP CONNECT for information.

\*\*\*

--CLAIMS/US Patents (Files 340,341, 942) have been enhanced  
with both application and grant publication level in a  
single record. See HELP NEWS 340 for information.

\*\*\*

--SourceOne patents are now delivered to your email inbox  
as PDF replacing TIFF delivery. See HELP SOURCE1 for more  
information.

\*\*\*

--Important news for public and academic  
libraries. See HELP LIBRARY for more information.

\*\*\*

--Important Notice to Freelance Authors--  
See HELP FREELANCE for more information

\*\*\*

For information about the access to file 43 please see Help News43.

\*\*\*

NEW FILES RELEASED

\*\*\*Dialog NewsRoom - Current 3-4 months (File 990)

\*\*\*Dialog NewsRoom - 2002 Archive (File 993)

\*\*\*Dialog NewsRoom - 2001 Archive (File 994)

\*\*\*Dialog NewsRoom - 2000 Archive (File 995)

\*\*\*TRADEMARKSCAN-Finland (File 679)

\*\*\*TRADEMARKSCAN-Norway (File 678)  
\*\*\*TRADEMARKSCAN-Sweden (File 675)

\*\*\*  
UPDATING RESUMED

\*\*\*Delphes European Business (File 481)  
\*\*\*

RELOADED

\*\*\*D&B Dun's Electronic Business Directory (File 515)  
\*\*\*U.S. Patents Fulltext 1976-current (File 654)  
\*\*\*Population Demographics (File 581)  
\*\*\*Kompas Western Europe (File 590)  
\*\*\*D&B - Dun's Market Identifiers (File 516)

REMOVED

\*\*\*Chicago Tribune (File 632)  
\*\*\*Fort Lauderdale Sun Sentinel (File 497)  
\*\*\*The Orlando Sentinel (File 705)  
\*\*\*Newport News Daily Press (File 747)  
\*\*\*U.S. Patents Fulltext 1980-1989 (File 653)  
\*\*\*Washington Post (File 146)  
\*\*\*Books in Print (File 470)  
\*\*\*Court Filings (File 793)  
\*\*\*Publishers, Distributors & Wholesalers of the U.S. (File 450)  
\*\*\*State Tax Today (File 791)  
\*\*\*Tax Notes Today (File 790)  
\*\*\*Worldwide Tax Daily (File 792)

\*\*\*TCXNET data is added to TcxFile (F156)

\*\*\*New document supplier\*\*\*

IMED has been changed to INFOTRIE (see HELP OINFOTRI)

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<  
>>> of new databases, price changes, etc. <<<  
\*\*\*\*

KWIC is set to 50.

HIGHLIGHT set on as '\*'

\* \* New CURRENT Year ranges installed \*\*

File 1:ERIC 1966-2003/Jan 22  
(c) format only 2003 The Dialog Corporation

Set Items Description

--- -----

Cost is in DialUnits

?b 155, 5, 73

05feb03 16:39:39 User259876 Session D459.1

\$0.35 0.100 DialUnits File1

\$0.35 Estimated cost File1

\$0.06 TELNET

\$0.41 Estimated cost this search

\$0.41 Estimated total session cost 0.100 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEILINE(R) 1966-2003/Jan W4

(c) format only 2003 The Dialog Corp.

File 5:BicSis Previews(F) 1969-2003/Jan W4

(c) 2003 BICISIS

\*File 5: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 73:EMBASE 1974-2003/Jan W4

(c) 2003 Elsevier Science B.V.

\*File 73: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

Set	Items	Description
?s	((EBV-based) or (polyoma-based)) and (ES or EG or EC)	
	0	EBV-BASED
	0	POLYOMA-BASED
	32981	ES
	18979	EG
	2829996	EC
S1	0	((EBV-BASED) OR (POLYOMA-BASED)) AND (ES OR EG OR EC)
?s	((EBV-based) or (polyoma-based)) and (signal (w) sequence (w) trap)	
	0	EBV-BASED
	0	POLYOMA-BASED
	573641	SIGNAL
	1353593	SEQUENCE
	37169	TRAP
	140	SIGNAL(W)SEQUENCE(W)TRAP
S2	0	((EBV-BASED) OR (POLYOMA-BASED)) AND (SIGNAL (W) SEQUENCE (W) TRAP)
?s	(episomal adj vector?) and (ES or EG or EC)	
	0	EPISOMAL ADJ VECTOR?
	32981	ES
	18979	EG
	2829996	EC
S3	0	(EPISOMAL ADJ VECTOR?) AND (ES OR EG OR EC)
?s	(episomal (w) vector?) and (ES or EG or EC)	
	3359	EPISOMAL
	270186	VECTOR?
	346	EPISOMAL(W)VECTOR?
	32981	ES
	18979	EG
	2829996	EC
S4	86	(EPISOMAL (W) VECTOR?) AND (ES OR EG OR EC)
?s s4 and (replication (w) factor?)		
	86	S4
	242177	REPLICATION
	3943808	FACTOR?
	1573	REPLICATION(W)FACTOR?
S5	0	S4 AND (REPLICATION (W) FACTOR?)
?s s4 and (signal (w) sequence (w) trap)		
	86	S4
	573641	SIGNAL
	1353593	SEQUENCE
	37169	TRAP
	140	SIGNAL(W)SEQUENCE(W)TRAP
S6	0	S4 AND (SIGNAL (W) SEQUENCE (W) TRAP)
?s s4 and (mouse)		
	86	S4
	1387053	MOUSE
S7	20	S4 AND (MOUSE)
?rd		
...completed examining records		
S8	17	FD (unique items)
?t s8/3,k/all		

8/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(F)

(c) format only 2003 The Dialog Corp. All rts. reserv.

13979687 21254794 PMID: 12087094

**Cloning and characterization of Ehox, a novel homeobox gene essential for embryonic stem cell differentiation.**

Jackson Melany; Baird Janet W; Cambray Noemi; Ansell John D; Forrester Lesley M; Graham Gerard J; et al

John Hughes Bennett Laboratories, Department of Oncology, University of Edinburgh, Western General Hospital, Crewe Road, Edinburgh EH4 2XU,

Scotland, United Kingdom.

Journal of biological chemistry United States, Oct 11 2002, 277 (41)

p38683-92, ISSN 0021-9258 Journal Code: 29851215

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

We report here the identification and characterization of a novel paired-like homeobox-containing gene (Ehox). This gene, identified in embryonic stem (\*ES\*) cells, is differentially expressed during in vitro \*ES\* cell differentiation. We have assessed Ehox function using the \*ES\* cell in vitro differentiation system. This has involved molecular and biological analyses of the effects of sense or antisense Ehox expression (using \*episomal\* \*vectors\*) on \*ES\* cell differentiation. Analysis of antisense Ehox-expressing \*ES\* cells indicates that they are unable to express marker genes associated with hematopoietic, endothelial, or cardiac differentiation following removal of leukemia inhibitory factor. In contrast, overexpression of Ehox using the sense construct accelerated the appearance of these differentiation markers. \*ES\* cell self-renewal and differentiation assays reveal that inhibition of Ehox activity results in the maintenance of a stem cell phenotype in limiting concentrations of...

...differentiation capacity of these cells. We therefore conclude that Ehox is a novel homeobox-containing gene that is essential for the earliest stages of murine \*ES\* cell differentiation.

Chemical Name: Ehox protein, \*mouse\*; Homeodomain Proteins; Oligonucleotides, Antisense; Plasmids

8/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

12563622 21462680 PMID: 11579462

**DNA polymerase eta undergoes alternative splicing, protects against UV sensitivity and apoptosis, and suppresses Mre11-dependent recombination.**

Thakur M; Wernick M; Collins C; Limoli C L; Crowley E; Cleaver J E

UCSF Comprehensive Cancer Center, University of California, San Francisco, California 94115, USA.

Genes, chromosomes & cancer (United States) Nov 2001, 32 (3) p222-35

, ISSN 1045-2257 Journal Code: 3007329

Contract/Grant No.: 1 R01 ES 08061; ES; NIEHS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... and is 6 kb upstream from the first coding exon. Using bacterial artificial chromosomes (BACs), the gene was mapped to human chromosome band 6p21 and \*mouse\* band 17D. The gene is expressed in most tissues, except for very low or undetectable levels in peripheral lymphocytes, fetal spleen, and adult muscle; exon...

... is frequently spliced out in normal cells and in almost half the transcripts in the testis and fetal liver. Expression of PCLH in a multicopy \*episomal\* \*vector\* proved nonviable, suggesting that overexpression is toxic. Expression from chromosomally integrated linear copies using either an EF1-alpha or CMV promoter was functional, resulting in...

Enzyme No.: \*EC\* 2.7.7.- (Rad30 protein); \*EC\* 2.7.7.7 (DNA-Directed RNA Polymerase)

8/3,K/3 (Item 3 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

09113181 97025358 PMID: 8871548

**A polyoma-based \*episomal\* \*vector\* efficiently expresses exogenous genes in \*mouse\* embryonic stem cells.**

Camenisch G; Gruber M; Donon G; Van Sloun P; Wenger R H; Gassmann M  
Institute of Physiology, University of Zurich, Switzerland.

Nucleic acids research (ENGLAND) Oct 1 1996, 24 (19) p8707-13,  
ISSN 0305-1848 Journal Code: 0411011

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**A polyoma-based \*episomal\* \*vector\* efficiently expresses exogenous genes in \*mouse\* embryonic stem cells.**

We describe the ability of novel episomally maintained vectors to efficiently promote gene expression in embryonic stem (\*ES\*) cells as well as in established \*mouse\* cell lines. Extrachromosomal maintenance of our vectors is based on the presence of polyoma virus DNA sequences, including the origin of replication harboring a mutant...

... only. Reporter gene expression from such extrachromosomally replicating vectors was approximately 10-fold higher than expression from replication-incompetent control plasmids. After transfection of different \*ES\* cell lines, the polyoma virus-derived plasmid variant pMGD26neo (7.2 kb) was maintained episomally in 16% of the G418-resistant clones. No chromosomal integration of pMGD26neo vector DNA was detected in \*ES\* cells that contained \*episomal\* \*vector\* DNA even after long term passage. The vector's replication ability was not altered after insertion of up to 10 kb hprt gene fragments. Besides undifferentiated \*ES\* cells, the polyoma-based vectors were also maintained extrachromosomally in differentiating \*ES\* cells and embryoid bodies as well as in established \*mouse\* cell lines.

8/3,K/4 (Item 4 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

08664284 96003855 PMID: 7568209

**Systemic gene therapy: biodistribution and long-term expression of a transgene in mice.**

Thierry A R; Lunardi-Iskandar Y; Bryant J L; Rahinovitch P; Gallo R C; Mahan L C

Laboratory of Tumor Cell Biology, National Cancer Institute, National Institutes of Health, Bethesda, MD 20892, USA.

Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) Oct 10 1995, 92 (21) p9742-6, ISSN 0027-9424  
Journal Code: 7509876

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

...luciferase gene as a marker was administered with the DLS liposomes in BALB/c mice. The luciferase gene and its product were found in all \*mouse\* tissues tested as determined by PCR analysis and immunohistochemistry. Luciferase activity was also detected in all tissues tested and was present in lung, liver, spleen, and heart up to 3 months postinjection. In contrast to the nonepisomal vectors tested (pFSV-luc and pCMVintluc), human papovavirus (BKV)-derived \*episomal\* \*vectors\* showed long-term transgene expression. We found that these \*episomal\* \*vectors\* replicated extrachromosomally in lung 2 weeks postinjection. Results indicated that transgene expression in specific tissues depended on the promoter element used, DNA/liposome formulation, dose...

Enzyme No.: \*EC\* 1.13.12.- (Luciferase)

8/3,K/5 (Item 5 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2003 The Dialog Corp. All rts. reserv.

07768214 93296186 PMID: 8390672

**A steroid-inducible promoter for the controlled overexpression of cloned genes in eukaryotic cells.**

Mader S; White J H

Department of Biochemistry, McGill University, Montreal, PQ, Canada.

Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) Jun 15 1993, 90 (12) p5603-7, ISSN 0027-8424  
Journal Code: 7505976

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... promoter "TATA" region. In transiently transfected HeLa cells in the presence of dexamethasone, the GRE5 promoter was at least 50-fold more efficient than the \*mouse\* mammary tumor virus long terminal repeat in expressing bacterial chloramphenicol acetyltransferase activity. When the GRE5 vector was introduced stably into the HeLa cell genome, chloramphenicol...

... to the next, probably due to an effect of chromosomal location on promoter activity. When propagated stably in HeLa cells in an Epstein-Barr virus \*episomal\* \*vector\*, the GRE5 promoter was > 50-fold inducible and its activity was strictly dependent on the presence of dexamethasone. We also show that the GRE5 promoter...

...Descriptors: genetics--GE; \*Chloramphenicol O-Acetyltransferase --biosynthesis--BI; \*Cloning, Molecular; \*DNA--metabolism--ME; \*DNA-Binding Proteins--metabolism--ME; \*Dexamethasone--pharmacology--PD; \*Gene Expression; \*Mammary Tumor Virus, \*Mouse--genetics--GE; \*Promoter Regions (Genetics); \*Receptors, Glucocorticoid--metabolism--ME; \*Receptors, Progesterone--metabolism--ME; \*TATA Box

Enzyme No.: \*EC\* 2.3.1.28 (Chloramphenicol O-Acetyltransferase)

8/3,K/6 (Item 6 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2003 The Dialog Corp. All rts. reserv.

06921129 91232963 PMID: 1709496

**A novel BK virus-based \*episomal\* \*vector\* for expression of foreign genes in mammalian cells.**

De Benedetti A; Rhoads R E

Department of Biochemistry, University of Kentucky College of Medicine, Lexington 40536.

Nucleic acids research (ENGLAND) Apr 25 1991, 19 (8) p1925-31, ISSN 0305-1048 Journal Code: 0411011

Contract/Grant No.: GM20918; GM; NIGMS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**A novel BK virus-based \*episomal\* \*vector\* for expression of foreign genes in mammalian cells.**

... coli shuttle vector was developed based on the human papova virus BK and pSV-nec. The vector contains a dioxin-responsive enhancer (DRE) controlling a \*mouse\* mammary tumor virus (MMTV) promoter for the inducible expression of inserted genes. In human cells the vector replicates episomally, presumably utilizing the BKV rather than...

Enzyme No.: \*EC\* 2.3.1.28 (Chloramphenicol O-Acetyltransferase)

8/3,K/7 (Item 7 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
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06517617 20215303 PMID: 2157631

**Regulated expression of Epstein-Barr virus nuclear antigen 3-encoding gene carried on stable \*episomal\* \*vectors\* in human cells.**

James M R; Sarasin A R; Perricaudet M; Joab I  
Institut de Recherches Scientifiques sur le Cancer, Villejuif, France.  
Gene (NETHERLANDS. Feb 14 1990, 86 (2), p233-9, ISSN 0378-1119  
Journal Code: 7706761  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

**Regulated expression of Epstein-Barr virus nuclear antigen 3-encoding gene carried on stable \*episomal\* \*vectors\* in human cells.**

... demonstrate production of stable human cell lines containing episomal EBV vectors and expressing EBV nuclear antigen 3 from the adenovirus major late promoter or the \*mouse\* metallothionein promoter, which retains metal-regulation in the episomal state. This system has proved useful in an analysis of the role of these and other...

Enzyme No.: \*EC\* 2.3.1.28 Chloramphenicol O-Acetyltransferase)

8/3,K/8 (Item 1 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2003 Elsevier Science B.V. All rts. reserv.

11847371 EMBASE No: 2002419847

**Establishment of an oriP/EBNA1-based \*episomal\* \*vector\* transcribing human genomic beta-globin in cultured murine fibroblasts**

Black J.; Vbs J.-M.

J. Black, 314 Hunters Crossing, Cary, NC 27511 United States  
Gene Therapy ( GENE THER. ) (United Kingdom) 2002, 9/21 (1447-1454)  
CODEN: GETHE ISSN: 0969-7128  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 57

**Establishment of an oriP/EBNA1-based \*episomal\* \*vector\* transcribing human genomic beta-globin in cultured murine fibroblasts**

A novel oriP/EBNA1-based \*episomal\* \*vector\* has been constructed that persists episomally in cultured murine fibroblasts. The vector, pBH148, is equipped with the entire 185-kb human beta-globin gene locus...

...human beta-globin mRNA by RT-PCR in all transfected late-passage DEpBH148 and A9pBH148 cell cultures. These findings illustrate that this oriP/EBNA1-based \*episomal\* \*vector\* is stable in a previously nonpermissive murine cell line and is a potential vector for human gene therapy.

**DRUG DESCRIPTORS:**

\*beta globin--endogenous compound--\*ec\*; \*transactivator protein  
--endogenous compound--\*ec\*; \*latent membrane protein 1--endogenous  
compound--\*ec\*  
hygromycin; messenger RNA--endogenous compound--\*ec\*; unclassified drug

**MEDICAL DESCRIPTORS:**

...genetic transfection; gene expression; agar gel electrophoresis;  
Southern blotting; transgene; polymerase chain reaction; reverse  
transcription polymerase chain reaction; RNA splicing; Epstein Barr virus;  
human; nonhuman; \*mouse\*; controlled study; human cell; animal cell;  
article; priority journal



DRUG TERMS UNCONTROLLED; protein equal--endogenous compound--ec\*

8/3,K/9 (Item 2 from file: 73)  
DIALOG(R) File 73:EMBASE  
(c) 2003 Elsevier Science B.V. All rts. reserv.

11501957 EMBASE No: 2002073801

**Stringent control of gene expression in vivo by using novel doxycycline-dependent trans-activators**

Lamartina S.; Roscilli G.; Rinaudo C.D.; Spoteno E.; Silvi L.; Hillen W.; Bujard H.; Cortese R.; Calikerto G.; Toniatti C.

Dr. C. Toniatti, Ist. di Ric. di Biologia Molecolare, IRBM-P Angeletti, Via Pontina, km 30,600, 00040 Pomezia (Rome) Italy

AUTHOR EMAIL: carlo.toniatti@merck.com

Human Gene Therapy ( HUM. GENE THER. ) (United States) 2002, 13/2 (199-210)

CODEN: HGTHE ISSN: 1043-0342

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 46

...is of potential utility for gene therapy applications in humans. However, rtTA may display a high basal activity, especially when delivered in vivo by using \*episomal\* \*vectors\* such as plasmids. Two novel Dox-inducible activators, called rtTA2SUPS-S2 and rtTA2SUPS-M2, which have a significantly lower basal activity than rtTA in stably transfected cell lines, have been described. In this study we tested the capability of these trans-activators to control expression of \*mouse\* erythropoietin (mEpo) and to modulate hematocrit (Hct) increase in vivo on delivery of plasmids into quadriceps muscles of adult mice by DNA electroinjection. Both rtTA2SUPS...  
DRUG DESCRIPTORS:

...\*drug administration--po; \*transactivator protein--drug development--dv; \*transactivator protein--pharmaceutics--pr; \*transactivator protein --pharmacology--pd; \*transactivator protein--intramuscular drug administration--im; \*erythropoietin--endogenous compound--ec\*

**MEDICAL DESCRIPTORS:**

in vivo study; episome; drug delivery system; genetic transfection; hematocrit; gene cassette; transcription regulation; nonhuman; female; \*mouse\*; controlled study; article

8/3,K/10 (Item 3 from file: 73)  
DIALOG(R) File 73:EMBASE  
(c) 2003 Elsevier Science B.V. All rts. reserv.

11346589 EMBASE No: 2001361061

**DNA polymerase eta undergoes alternative splicing, protects against UV sensitivity and apoptosis, and suppresses Mre11-dependent recombination**

Thakur M.; Wernick M.; Collins C.; Limoli C.L.; Crowley E.; Cleaver J.E.

Dr. J.E. Cleaver, UCSF Comprehensive Cancer Center, Box 0808, 2340 Sutter Street, San Francisco, CA 94115 United States

AUTHOR EMAIL: jcleaver@cc.ucsf.edu

Genes Chromosomes and Cancer ( GENES CHROMOSOMES CANCER ) (United States) 2001, 32/3 (222-235)

CODEN: GOCAB ISSN: 1045-2257

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 41

...and is 6 kb upstream from the first coding exon. Using bacterial artificial chromosomes (BACs), the gene was mapped to human chromosome band 6p21 and \*mouse\* band 17D. The gene is expressed in most tissues, except for very low or undetectable levels in peripheral lymphocytes, fetal spleen, and adult muscle; exon...

...is frequently spliced in normal cells and in almost all the transcripts in the testis and fetal liver. Expression of POLH in a multicopy \*episomal\* \*vector\* proved nonviable, suggesting that overexpression is toxic. Expression from chromosomally integrated linear copies using either an EFl-alpha or CMV promoter was functional, resulting in...

DRUG DESCRIPTORS:

\*DNA polymerase--endogenous compound--\*ec\*; \*gene product--endogenous compound--\*ec\*

MEDICAL DESCRIPTORS:

ultraviolet radiation; photosensitivity; gene repression; gene sequence; RNA translation; gene mapping; chromosome  $\epsilon$ p; gene expression; signal transduction; cell cycle phase; human; nonhuman; \*mouse\*; controlled study; human cell; animal cell; article; priority journal

DRUG TERMS (UNCONTROLLED): protein mre ii--endogenous compound--\*ec\*; protein polh

8/3,K/11 (Item 4 from file: 73)

DIALOG(R)File 73:EMBASE

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11303105 EMBASE No: 2001317339

**Stable therapeutic serum levels of human alpha-1 antitrypsin (AAT) after portal vein injection of recombinant adeno-associated virus (rAAV) vectors**

Song S.; Embury J.; Laipis P.J.; Berns K.I.; Crawford J.M.; Flotte T.R.  
T.R. Flotte, Univ. of Florida College of Medicine, Gene Therapy Center,  
Department of Pediatrics, 1600 SW Archer Road, Gainesville, FL 32610-0266  
United States

Gene Therapy ( GENE THER. ) (United Kingdom) 2001, 8/17 (1299-1306)

CODEN: GETHE ISSN: 0969-7128

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 33

...levels greater than 1 mg/ml were achieved at doses of  $3 \times 10^8$  IU. Southern blotting of liver DNA revealed the presence of circular \*episomal\* \*vector\* genomes. Immunostaining showed that transgene expression was scattered throughout the liver parenchyma. Similar results were obtained with a rAAV-CB-green fluorescent protein (GFP) vector...

DRUG DESCRIPTORS:

...\*concentration--cr; \*alpha 1 antitrypsin--drug dose--do; \*alpha 1 antitrypsin--drug therapy--dt; \*alpha 1 antitrypsin--drug toxicity--to; \*alpha 1 antitrypsin--endogenous compound--\*ec\*; \*alpha 1 antitrypsin--pharmaceutics--pr; \*alpha 1 antitrypsin--intramuscular drug administration--im; \*alpha 1 antitrypsin--intravenous drug administration--iv

...ad; complementary DNA--drug concentration--cr; complementary DNA--drug dose--do; complementary DNA--drug therapy--dt; complementary DNA--drug toxicity--to; complementary DNA--endogenous compound--\*ec\*; complementary DNA--pharmaceutics--pr; complementary DNA--intramuscular drug administration--im; complementary DNA--intravenous drug administration--iv; elongation factor 1alpha; immediate early protein; beta actin; beta...

MEDICAL DESCRIPTORS:

...dose response; Southern blotting; episome; immunohistochemistry; transgene; gene expression; liver parenchyma; liver toxicity; gene therapy; alpha 1 antitrypsin deficiency--drug therapy--dt; human; nonhuman; female; \*mouse\*; animal experiment; controlled study; animal tissue; animal cell; article; priority journal

8/3,K/12 (Item 5 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

11248811 EMBASE No: 2001263081

**An episomally maintained MDR1 gene for gene therapy**

Lee C.S.L.; Vieira W.D.; Pastan I.; Gottesman M.M.  
Dr. M.M. Gottesman, Laboratory of Cell Biology, National Cancer  
Institute, National Institutes of Health, 37 Convent Drive, MSC 4255,  
Bethesda, MD 20892-4255 United States  
AUTHOR EMAIL: mgottesman@nih.gov  
Human Gene Therapy ( HUM. GENE THER. ) (United States) 2001, 12/8  
(345-953)  
CODEN: HGTHE ISSN: 1043-0342  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 13

...its nuclear retention protein (EBNA-1) was transfected into human  
(KB-3-1) cells. MDR1 was expressed at a higher level in cells carrying the  
\*episomal\* \*vector\*, pEpiHaMA, compared with the vector lacking sequences  
needed for episomal maintenance (pHaMA). Furthermore, more drug-resistant  
KB-3-1 colonies were obtained on selection after...

**DRUG DESCRIPTORS:**

\*glycoprotein P--endogenous compound--\*ec\*; \*Epstein Barr virus antigen  
--endogenous compound--\*ec\*; \*recombinant DNA--drug therapy--dt\*; \*  
recombinant DNA--pharmacology--pd  
extrachromosomal DNA--endogenous compound--\*ec\*; liposome--endogenous  
compound--\*ec\*

**MEDICAL DESCRIPTORS:**

...Barr virus; gene replication; genetic transfection; cell strain KB; gene  
sequence; drug selectivity; gene construct; transgene; long terminal repeat  
; tumor cell line; fluorescence; human; nonhuman; \*mouse\*; controlled study  
; human cell; article

**8/3,K/13 (Item 6 from file: 73)**

DIALOG R/File 73:EMBASE  
(c) 2003 Elsevier Science B.V. All rts. reserv.

07872224 EMBASE No: 1999352565

**Transcriptional regulation of the Igkappa gene by promoter-proximal  
pausing of RNA polymerase II**

Raschke E.E.; Albert T.; Eick D.  
E. Eick, Clin. Molec. Biol./Tum. Genet. Inst., Marchioninistrasse 25,  
D-81377 Munich Germany  
AUTHOR EMAIL: eick@gsf.de  
Journal of Immunology ( J. IMMUNOL. ) (United States) 1999, 163/8  
(4375-4382)  
CODEN: JOIMA ISSN: 0022-1767  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 70

...Igkappa gene, but not initiation and pausing of pol II. A rearranged  
copy of the Igkappa gene was introduced into 702/3 cells using an  
\*episomal\* \*vector\* system. The episomal Igkappa was regulated by LPS and  
TGF-beta like the endogenous gene and established a paused pol II, whereas  
a construct with...

**DRUG DESCRIPTORS:**

\*immunoglobulin kappa chain--endogenous compound--\*ec\*; \*RNA polymerase ii  
--endogenous compound--\*ec\*

**MEDICAL DESCRIPTORS:**

promoter region; transcription initiation; RNA translation; gene  
rearrangement; protein processing; somatic mutation; nonhuman; \*mouse\*; rat  
; animal cell; article; priority journal

**8/3,K/14 (Item 7 from file: 73)**

DIALOG R/File 73:EMBASE  
(c) 2003 Elsevier Science B.V. All rts. reserv.

07436586 EMBASE No: 1998356581

**Targeting the PML/RARalpha translocation product triggers apoptosis in promyelocytic leukemia cells**

Nason-Burchenal K.; Takle G.; Pace U.; Flynn S.; Allopenna J.; Martin P.; George S.T.; Goldberg A.R.; Dmitrovsky E.

K. Nason-Burchenal, Department of Medicine, Memorial Hospital, Sloan-Kettering Institute, 1275 York Avenue, New York, NY 10021 United States

Oncogene ( ONCOGENE ) (United Kingdom) 08 OCT 1998, 17/14 (1759-1768)

CODEN: ONCNE ISSN: 0950-6232

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 59

...without overcoming the maturation block found in these leukemic cells. These biologic effects depend on the selective pressure used to express the ribozyme from an \*episomal\* \*vector\*. Introduction of a non-catalytic, control ribozyme into NB4 cells caused no observed phenotype due to anti-sense activities. Expression of the catalytic or non...

**DRUG DESCRIPTORS:**

\*retinoic acid receptor; \*hybrid protein--endogenous compound--\*ec\*  
ribozyme; messenger rna--endogenous compound--\*ec\*

**MEDICAL DESCRIPTORS:**

chromosome translocation; leukemia cell; cell proliferation; cell differentiation; expression vector; nonhuman; \*mouse\*; controlled study; animal cell; article; priority journal

**8/3,K/15 (Item 8 from file: 73)**

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

06220852 EMBASE No: 1995250635

**Preparation of a murine cell line which stably expresses human T lymphotropic virus type I (HTLV-I) env genome products**

Joh T.; Fujita M.; Tanaka Y.; Shiku H.

Department of Oncology, Nagasaki University, School of Medicine, 1-12-4 Sakamoto, Nagasaki 852 Japan

Gene ( GENE ) (Netherlands) 1995, 161/2 (227-230)

CODEN: GENED ISSN: 0378-1119

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...cell line NS-1, which stably expressed the human T lymphotropic virus type I (HTLV-I) env gene. The plasmid BCMGEnv was constructed from the \*episomal\*-\*vector\* BCMGSNec, which was primarily derived from bovine papilloma virus. Transfected env expression was detected by Northern blotting, as well as by flow cytometry using envelope...

**DRUG DESCRIPTORS:**

\*human t cell leukemia virus antigen--endogenous compound--\*ec\*

**MEDICAL DESCRIPTORS:**

animal cell; article; cell line; genetic transfection; \*mouse\*; nonhuman; priority journal

**8/3,K/16 (Item 9 from file: 73)**

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

06051216 EMBASE No: 1995082528

**Expression of the costimulatory B7-1 molecule prevents immune privilege in the anterior chamber of the eye**

Ksander B.R.; Miki S.; Geer C.; Streilein J.W.; Podack E.

Department of Ophthalmology, Schepens Eye Research Institute, Harvard Medical School, 20 Staniford St., Boston, MA 02114 United States

Regional Immunology - R. IMMUNOL. United States 1, 6/1-2  
 (128-133)  
 CODEN: REGIE ISSN: 0896-0623  
 DOCUMENT TYPE: Journal; Conference Paper  
 LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...tumor cells prevents immune privilege and progressive tumor growth within the AD of BALB/c mice. To this end, P815 cells were transfected with the \*episomal\* \*vector\* pBMGNeo that contained murine B7-1 cDNA. Transfected P815 cells (P815-B7-1sup+) constitutively expressed B7-1 on the cell surface. Groups of BALB/c...

DRUG DESCRIPTORS:

\*b7 antigen--endogenous compound--\*ec\*

MEDICAL DESCRIPTORS:

animal cell; animal model; animal tissue; antigen expression; t lymphocyte; cancer transplantation; conference paper; controlled study; female; immunological tolerance; immunoreactivity; mastocytoma; \*mouse\*; nonhuman; priority journal; t lymphocyte

8/3,K/17 (Item 10 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

05044654 EMBASE No: 1992184370

**Cloning muscle isoforms of neural cell adhesion molecule using an episomal shuttle vector**

Fan L.C.; Margolskee R.F.; Blau H.M.

Research Division, Hospital for Special Surgery, 535 East 70th Street, New York, NY 10021 United States

Somatic Cell and Molecular Genetics ( SOMATIC CELL MOL. GENET. ) (United States) 1992, 18/2 (163-177)

CODEN: SOMGD ISSN: 0740-7750

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...isoforms of the neural cell adhesion molecule (NCAM) are induced during the differentiation of C2C12 myoblasts into myotubes. Corresponding NCAM clones were isolated from a \*mouse\* muscle cDNA library made in an Epstein-Barr virus shuttle vector that replicates extrachromosomally in human cells. Following transfection with the library, human cells expressing \*mouse\* NCAM were enriched using the fluorescence-activated cell sorter. Episomal NCAM clones recovered from sorted cells contain an 18-bp insert between exons 12 and...

...from the earliest stages of differentiation. Moreover, our studies demonstrate the feasibility of cloning tissue-specific molecules by transfection and expression of cDNA libraries in \*episomal\* \*vectors\*.

DRUG DESCRIPTORS:

\*nerve cell adhesion molecule--endogenous compound--\*ec\*

complementary dna--endogenous compound--\*ec\*; phosphatidylinositol

MEDICAL DESCRIPTORS:

article; cell differentiation; epstein barr virus; gene transfer; human; human cell; \*mouse\*; muscle development; myotube; nonhuman; priority journal; genetic transfection

?ds

Set	Items	Description
S1	1	((EBV-BASED OR (POLYOMA-BASED)) AND (ES OR EG OR EC)
S2	0	((EBV-BASED OR (POLYOMA-BASED)) AND ((SIGNAL (W) SEQUENCE - (W) TRAP)
S3	0	(EPISCIMAL ADJ VECTOR?) AND (ES OR EG OR EC)
S4	36	(EPISCIMAL (W) VECTOR?) AND (ES OR EG OR EC)
S5	0	S4 AND (REPLICATION (W) FACTOR?)
S6	0	S4 AND ((SIGNAL (W) SEQUENCE (W) TRAP)
S7	20	S4 AND (MOUSE)
S8	17	FD (unique items)

8s s4 and (Library or Libraries)  
86 S4  
118871 LIBRARY  
32184 LIBRARIES  
SP 4 S4 AND (LIBRARY OR LIBRARIES)

1rd  
...completed examining records  
S10 4 RD (unique items)  
St s10/1,k/all

10/3,K/1 (Item 1 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2003 The Dialog Corp. All rts. reserv.

06921129 91232963 PMID: 1709496

**A novel BK virus-based \*episomal\* \*vector\* for expression of foreign genes in mammalian cells.**

De Benedetti A; Encads R E  
Department of Biochemistry, University of Kentucky College of Medicine,  
Lexington 40536.

Nucleic acids research (ENGLAND) Apr 25 1991, 19 (8) p1925-31,

ISSN 0305-1048 Journal Code: 0411011

Contract/Grant No.: GM20818; GM; NIGMS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**A novel BK virus-based \*episomal\* \*vector\* for expression of foreign genes in mammalian cells.**

... copy number. Transformation of bacteria with plasmid molecules retrieved from the mammalian host was efficient, making this vector well adapted for the screening of cDNA \*libraries\* for the ability to express a phenotype in mammalian cells. Moreover, DNA sequences were stable during long-term passage in mammalian cells; vector passaged continuously...

Enzyme No.: \*EC\* 2.3.1.28 (Chloramphenicol O-Acetyltransferase)

10/3,K/2 (Item 2 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2003 The Dialog Corp. All rts. reserv.

05500529 97250519 PMID: 3036836

**Isolation and characterization of the nuclear gene encoding the Rieske iron-sulfur protein (RIP1) from *Saccharomyces cerevisiae*.**

Beckmann J D; Ljungdahl P O; Lopez J L; Trumpower B L

Journal of biological chemistry (UNITED STATES) Jun 25 1987, 262 (18)

p8901-9, ISSN 0021-9258 Journal Code: 2985121R

Contract/Grant No.: GM10575-02; GM; NIGMS; GM20379; GM; NIGMS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... Biochem. 149, 95-99) to detect the yeast gene by Southern analysis. Five different but overlapping clones were then isolated by probing a yeast genomic \*library\* carried on YEp 13 by colony lift hybridization. Several approaches confirmed that the isolated DNA contained the gene for the Rieske iron-sulfur protein. The...

... deficient integrant was transformed to GLY+ by a 2-kilobase pair HindIII-BglII fragment, including a complete copy of the gene, carried on a multicopy \*episomal\* \*vector\*. Immunoblots with monoclonal antibodies to the iron-sulfur protein indicated overproduction of the protein in the complemented strain and revealed expression of approximately equal amounts ...

10/3,K/3 (Item 1 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2003 Elsevier Science B.V. All rts. reserv.

06260726 EMBASE No: 1995291053

**Human cDNA clones that modify radiomimetic sensitivity of ataxia-telangiectasia (group A) cells**

Ziv Y.; Bar-Shira A.; Jorgensen T.J.; Russell P.S.; Sartiel A.; Shows T.B.; Eddy R.L.; Buchwald M.; Legerski R.; Schimke R.T.; Shiloh Y.  
Department of Human Genetics, Sackler School of Medicine, Tel Aviv University, Ramat Aviv 69978 Israel  
Somatic Cell and Molecular Genetics ( SOMATIC CELL MOL. GENET. ) (United States) 1995, 21/3 (99-111)  
CODEN: SOMGD ISSN: 0740-7750  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...cDNA clones that modify the radiomimetic sensitivity of A-T cells assigned to complementation group (A- T(A)). The cells were transfected with human cDNA \*libraries\* cloned in \*episomal\* \*vectors\*, and various protocols of radiomimetic selection were applied. Thirteen cDNAs rescued from survivor cells were found to confer various degrees of radiomimetic resistance to A...

**DRUG DESCRIPTORS:**

dna--endogenous compound--\*ec\*

**MEDICAL DESCRIPTORS:**

article; clinical protocol; controlled study; dna damage; dna \*library\*;  
dna replication origin; dna synthesis; episome; gene transfer; genetic complementation; human; human cell; ionizing radiation; priority journal; radiation response

10/3,K/4 (Item 2 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2003 Elsevier Science B.V. All rts. reserv.

05044654 EMBASE No: 1992164870

**Cloning muscle isoforms of neural cell adhesion molecule using an episomal shuttle vector**

Pan L.C.; Margolske R.F.; Blau H.M.  
Research Division, Hospital for Special Surgery, 535 East 70th Street, New York, NY 10021 United States  
Somatic Cell and Molecular Genetics ( SOMATIC CELL MOL. GENET. ) (United States) 1992, 18/2 (163-177)  
CODEN: SOMGD ISSN: 0740-7750  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...neural cell adhesion molecule (NCAM) are induced during the differentiation of C2C12 myoblasts into myotubes. Corresponding NCAM clones were isolated from a mouse muscle cDNA \*library\* made in an Epstein-Barr virus shuttle vector that replicates extrachromosomally in human cells. Following transfection with the \*library\*, human cells expressing mouse NCAM were enriched using the fluorescence-activated cell sorter. Episomal NCAM clones recovered from sorted cells contain an 18-kp insert...

...to myogenesis from the earliest stages of differentiation. Moreover, our studies demonstrate the feasibility of cloning tissue-specific molecules by transfection and expression of cDNA \*libraries\* in \*episomal\* \*vectors\*.

**DRUG DESCRIPTORS:**

\*nerve cell adhesion molecule--endogenous compound--\*ec\*

complementary dna--endogenous compound--\*ec\*; phosphatidylinositol  
?ds

Set	Items	Description
S1	0	(EBV-BASED) OR (POLYOMA-BASED), AND (ES OR EG OR EC)
S2	0	(EBV-BASED) OR (POLYOMA-BASED), AND (SIGNAL (W) SEQUENCE (W) TRAP)
S3	0	EPISOMAL ADJ VECTOR?, AND (ES OR EG OR EC)
S4	86	EPISOMAL (W) VECTOR?, AND (ES OR EG OR EC)
S5	0	S4 AND (REPLICATION (W) FACTOR?)
S6	0	S4 AND (SIGNAL (W) SEQUENCE (W) TRAP)
S7	20	S4 AND (MOUSE)
S8	17	RD (unique items)
S9	4	S4 AND (LIBRARY OR LIBRARIES)
S10	4	RD (unique items)
2s (signal (w) sequence (w) trap) and (episomal (w) vector?)		
	573641	SIGNAL
	1353593	SEQUENCE
	37169	TRAP
	140	SIGNAL(W)SEQUENCE (W)TRAP
	3359	EPISOMAL
	270186	VECTOR?
	346	EPISOMAL(W)VECTOR?
S11	0	(SIGNAL (W) SEQUENCE (W) TRAP) AND (EPISOMAL (W) VECTOR?)
2s (signal (w) sequence (w) trap) and (ES or EG or EC)		
	573641	SIGNAL
	1353593	SEQUENCE
	37169	TRAP
	140	SIGNAL(W)SEQUENCE (W)TRAP
	32981	ES
	18979	EG
	2829996	EC
S12	33	(SIGNAL (W) SEQUENCE (W) TRAP) AND (ES OR EG OR EC)
2s s12 and mouse		
	33	S12
	1387053	MOUSE
S13	23	S12 AND MOUSE
3rd		
...completed examining records		
S14	18	RD (unique items)
St s14/3,k/all		

14/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

12748461 21553290 PMID: 11696859

**\*Signal\*\*sequence\* \*trap\* in mammalian and yeast cells: a comparison.**

Galliciotti G; Schneider H; Wyder L; Vitaliti A; Wittmer M; Ajmo M; Klemenz R

Department of Pathology, Division of Cancer Research, University Hospital, Schmelzbergstrasse 12, 8091 Zurich, Switzerland.

Journal of membrane biology (United States) Oct 1 2001, 183 (3) p175-82, ISSN 0022-2631 Journal Code: 0211301

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**\*Signal\*\*sequence\* \*trap\* in mammalian and yeast cells: a comparison.**

... to the membrane in COS cells, in another one for invertase secretion from yeast. In this work, we compared the two systems by testing six \*mouse\* signal peptides in COS and yeast cells. All of them were functional in the mammalian system, whereas only three of them in yeast. Two other...

Enzyme No.: \*EC\* 3.2.1. (Glycoside Hydrolases); \*EC\* 3.2.1.26 (beta-D-fructofuranosidase)



14/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10899185 20357612 PMID: 10898732

**Cloning of murine glycosyl phosphatidylinositol anchor attachment protein, GPAA1.**

Hirai Y; Chen R; Sawa H; Hosoda T; Kudoh S; Kobayashi Y; Aburatani H; Nagashima K; Nagai R; Yazaki Y; Medof M E; Komuro I

Department of Cardiovascular Medicine, University of Tokyo Graduate School of Medicine, Tokyo 113-8655, Japan.

American journal of physiology. Cell physiology (UNITED STATES) Jul 2000, 279 (1) pC205-12, ISSN 0363-6143 Journal Code: 100901225

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... a transamidase reaction mediated by a GPI transamidase complex. We isolated one of the components of this complex, mGPAA1 (murine GPI anchor attachment), by the \*signal\* \*sequence\* \*trap\* method. mGPAA1 cDNA is about 1 kb in length and encodes a putative 621 amino acid protein. The mGPAA1 gene has 12 small exons and...

... mammalian cells, and in situ hybridization analysis revealed that it is abundant in the choroid plexus, skeletal muscle, osteoblasts of rib, and occipital bone in \*mouse\* embryos. Its expression levels and transamidation efficiency decreased with differentiation of embryonic stem cells. The 3T3 cell lines expressing antisense mGPAA1 failed to express GPI...

Enzyme No.: \*EC\* 3.1.3.- (miniplacental alkaline phosphatase); \*EC\* 3.1.3.1 (Alkaline Phosphatase)

14/3,K/3 (Item 3 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10905395 20352025 PMID: 10891475

**ESOP-1, a secreted protein expressed in the hematopoietic, nervous, and reproductive systems of embryonic and adult mice.**

Kato K; Morrison A M; Nakano T; Tashiro K; Honjo T

Department of Medical Chemistry, Faculty of Medicine, Kyoto University, Yoshida, Sakyo-ku, Japan.

Blood (UNITED STATES) Jul 1 2000, 96 (1) p362-4, ISSN 0006-4971  
Journal Code: 763509

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

To isolate soluble factors expressed in early phases of hematopoietic differentiation, we applied the \*signal\* \*sequence\* \*trap\* method to the in vitro murine hematopoietic differentiation system, in which \*ES\* cells are cocultured with OP-9 stroma cells. This strategy allowed us to isolate cDNA for a secreted protein, ESOP-1, of 160 amino acids, the sequence of which shows 64% identity with human ESOP-1/MD-2. ESOP-1 mRNA was highly expressed in the \*mouse\* embryos at 7.5 days after coitus. Expression of the ESOP-1 mRNA and protein was shown in the embryonic and adult hematopoietic system. In...

14/3,K/4 (Item 4 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10660988 20197866 PMID: 10733486

**Molecular cloning of novel type 1 cytokine receptor similar to the common gamma chain.**

Fujio K; Nosaka T; Kojima T; Kawashima T; Yahata T; Copeland N G; Gilbert D J; Jenkins N A; Yamamoto K; Nishimura T; Kitamura T

Department of Hematopoietic Factors, the Institute of Medical Science, the University of Tokyo, Tokyo, Japan.

Blood (UNITED STATES) Apr 1 2000, 95 7, p2204-10, ISSN 0006-4971  
Journal Code: 7603509

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

In a complementary DNA (cDNA) screening of murine Th2-skewed lymphocytes with our recently developed \*signal\* \*sequence\* \*trap\* method termed SST-REX, a novel type 1 cytokine receptor, Deltal (deltal), was identified. Although deltal is ubiquitously expressed in multiple tissues, the expression level...

... region of deltal includes a box1 motif, which is important for association with Janus kinases (JAKs), and showed a significant homology with that of the \*mouse\* erythropoietin receptor (EPOR). A box2 motif was also found in close proximity to the box1 region. Dimerization of the cytoplasmic region of deltal alone did...

Enzyme No.: \*EC\* 2.7.1.- (Janus kinase 2); \*EC\* 2.7.1.112 (Protein-Tyrosine Kinase)

**14/3,K/5 (Item 5 from file: 155)**

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10285541 99269110 PMID: 10336468

**Isolation and characterization of CA XIV, a novel membrane-bound carbonic anhydrase from \*mouse\* kidney.**

Mori K; Ogawa Y; Ebihara K; Tamura N; Tashiro K; Kuwahara T; Makoyama M; Sugawara A; Ozaki S; Tanaka I; Nakao K

Department of Medicine and Clinical Science, Kyoto University Graduate School of Medicine, 54 Shogoin Kawahara-cho, Sakyo-ku, Kyoto 606-8507, Japan.

Journal of biological chemistry (UNITED STATES) May 28 1999, 274 (22) p15701-5, ISSN 0021-9258 Journal Code: 2985121R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**Isolation and characterization of CA XIV, a novel membrane-bound carbonic anhydrase from \*mouse\* kidney.**

... acid-base balance and transport of carbon dioxide and ions. In this study, we have succeeded in the isolation of a novel CA from the \*mouse\* kidney by use of the \*signal\* \*sequence\* \*trap\* method. It is a 337-amino acid polypeptide with a calculated molecular mass of 37.5 kDa, consisting of a putative amino-terminal signal sequence...

Enzyme No.: \*EC\* 4.2.1.1 (Carbonic Anhydrases)

**14/3,K/6 (Item 6 from file: 155)**

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10147444 99118314 PMID: 9927759

**A new \*signal\* \*sequence\* \*trap\* using alkaline phosphatase as a reporter.**

Chen H; Leder P

Department of Genetics, Harvard Medical School, Howard Hughes Medical

Institute, 200 Longwood Avenue, Boston, MA 02115, USA.

Nucleic acids research (ENGLAND) Feb 15 1999, 27 4 p1219-22,

ISSN 0305-1048 Journal Code: 0411011

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**A new \*signal\* \*sequence\* \*trap\* using alkaline phosphatase as a reporter.**

... proteins are critical to the cell-cell interactions governing normal development and carcinogenesis. To facilitate the identification of such molecules, we have developed a novel \*signal\* \*sequence\* \*trap\* that uses human placental alkaline phosphatase as a reporter. Libraries from \*mouse\* prostate and human prostatic carcinoma were constructed to test the PST (peptide signal trap) system, resulting in the identification of several secreted and transmembrane proteins.

Enzyme No.: \*EC\* 3.1.3.1 (Alkaline Phosphatase)

**14/3,K/7 (Item 7 from file: 155)**

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10049491 99026129 PMID: 9906933

**Molecular cloning, characterization, and chromosomal localization of FKBP23, a novel FK506-binding protein with Ca<sup>2+</sup>-binding ability.**

Nakamura T; Yabe D; Kanazawa N; Tashiro K; Sasayama S; Honjo T

Faculty of Medicine, Kyoto University, Sakyo-ku, Kyoto, 606, Japan.

Genomics (UNITED STATES) Nov 15 1998, 54 (1) p89-98, ISSN 0888-7543

Journal Code: 9806135

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

We have identified and characterized a cDNA encoding a novel FK506-binding protein (FKBP), named FKBP23, from \*mouse\* heart by the \*signal\* \*sequence\* \*trap\* method. The deduced amino acid sequence has significant homology to other FKBP family members around the peptidylprolyl cis-trans-isomerase motifs. FKBP23 also has two...

... FKBP23 mRNA is expressed most strongly in heart, lung, and testis, beginning at day 8.5 of embryonic development. The FKBP23 gene was mapped to \*mouse\* chromosome 2. Copyright 1998 Academic Press.

Enzyme No.: \*EC\* 5.2.1.- (Immunophilins); \*EC\* 5.2.1.- (Tacrolimus Binding Proteins)

**14/3,K/8 (Item 8 from file: 155)**

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

09270320 97165997 PMID: 9013890

**Molecular cloning of a novel \*mouse\* aspartic protease-like protein that is expressed abundantly in the kidney.**

Mori K; Ogawa Y; Tamura N; Ebihara K; Aoki T; Muro S; Ozaki S; Tanaka I; Tashiro K; Nakao K

Department of Medicine and Clinical Science, Kyoto University Graduate School of Medicine, Japan.

FEBS letters (NETHERLANDS) Jan 20 1997, 401 (2-3) p218-22, ISSN

0014-5793 Journal Code: 0155157

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**Molecular cloning of a novel \*mouse\* aspartic protease-like protein that is expressed abundantly in the kidney.**

By use of the \*signal\* \*sequence\* \*trap\* method, we isolated a cDNA encoding a novel aspartic protease-like protein from the \*mouse\* kidney, and termed it 'kidney-derived aspartic protease-like protein (KAP)'. The protein, a 419-amino-acid polypeptide with a 16-amino-acid signal sequence, had 47% identity with \*mouse\* cathepsin D, and its overall structure was closely related to known aspartic proteases. Northern blot analysis revealed that KAP mRNA is expressed at the highest...

Enzyme No.: \*EC\* 3.4.23 (Aspartic Endopeptidases); \*EC\* 3.4.23.- (KAP protein, kidney)

**14/3,K/9 (Item 9 from file: 155)**

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

09171291 97075932 PMID: 8918255

**Isolation and characterization of a novel secretory protein, stromal cell-derived factor-2 (SDF-2) using the \*signal\* \*sequence\* \*trap\* method.**

Hamada T; Tashiro K; Tada H; Inazawa J; Shirozu M; Shibahara K; Nakamura T; Martina N; Nakano T; Honjo T

Department of Medical Chemistry, Kyoto University Faculty of Medicine, Japan.

Gene (NETHERLANDS) Oct 17 1996, 176 (1-2) p211-4, ISSN 0378-1119  
Journal Code: 7706761

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**Isolation and characterization of a novel secretory protein, stromal cell-derived factor-2 (SDF-2) using the \*signal\* \*sequence\* \*trap\* method.**

With use of the \*signal\* \*sequence\* \*trap\* method, we isolated a cDNA encoding a novel secretory protein, SDF-2, from the \*mouse\* stromal cell line, ST2. The human homologue of SDF-2 was also isolated. The amino acid (aa) sequences deduced from both the clones were conserved...

Enzyme No.: \*EC\* 2.4.1. (Mannosyltransferases); \*EC\* 2.4.1.109 (dolichyl-phosphate-mannose - protein mannosyltransferase)

**14/3,K/10 (Item 1 from file: 73)**

DIALOG(R) File 73: EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

11732163 EMBASE No: 2002303790

**Identification of genes encoding \*mouse\* oocyte secretory and transmembrane proteins by a \*signal\* \*sequence\* \*trap\***

Taft R.A.; Denegre J.M.; Pendola F.L.; Eppig J.J.

J.J. Eppig, Jackson Laboratory, Bar Harbor, ME 04609 United States

AUTHOR EMAIL: jje@jax.org

Biology of Reproduction (BIOL. REPROD.) (United States) 2002, 67/3 (953-960)

CODEN: BIREB ISSN: 0016-3363

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 66

**Identification of genes encoding \*mouse\* oocyte secretory and transmembrane proteins by a \*signal\* \*sequence\* \*trap\***

...on both cell types. Factors involved in the regulatory loop will therefore contain a signal sequence, which can be used to identify them through a \*signal\* \*sequence\* \*trap\* (SST). A screen of an oocyte SST library identified three classes of oocyte-expressed sequences: known

\*mouse\* genes, sequences homologous to known mammalian genes, and novel sequences of unknown function. Many of the recovered genes may have roles in the oocyte-granulosa cell regulatory loop. For several of the known \*mouse\* genes, new roles in follicular development are implied by identification of their expression, for the first time, in the oocyte. The future characterization of novel...

DRUG DESCRIPTORS:

\*signal peptide--endogenous compound--\*ec\*

MEDICAL DESCRIPTORS:

granulosa cell; oocyte maturation; signal transduction; gene sequence; gene expression; sequence homology; mammalian genetics; sequence analysis; oocyte; developmental biology; nonhuman; female; \*mouse\*; animal cell; article; nucleotide sequence; priority journal

14/3,K/11 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

11333471 EMBASE No: 1011347804

**Endomucin is expressed in embryonic dorsal aorta and is able to inhibit cell adhesion**

Ueno M.; Igarashi K.; Kimura N.; Okita K.; Takizawa M.; Nobuhisa I.; Kojima T.; Kitamura T.; Samulowitz U.; Vestweber D.; Shimomura T.; Suda T.; Nakashima K.; Taga T.

T. Taga, Department of Cell Fate Modulation, Inst. of Molec.

Embryology/Genetics, Kumamoto University, 2-2-1, Honjo, Kumamoto 860-0811 Japan

AUTHOR EMAIL: taga@kaigu.medic.kumamoto-u.ac.jp

Biochemical and Biophysical Research Communications ( BIOCHEM. BIOPHYS.

RES. COMMUN. ) (United States) 21 SEP 2001, 287/2 (501-506)

CODEN: BBRCA ISSN: 0006-291X

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 20

...membrane-bound or secretory molecule regulating early hematopoiesis, we screened a cDNA library from dorsal aortas of embryonic day (E) 10.5 mice by a \*signal\* \*sequence\* \*trap\* method and obtained a clone encoding a sialoprotein, endomucin-1. Immunohistochemistry revealed that the endomucin-1 transcript was specifically expressed in the endothelial cells of dorsal aorta of E10.5 \*mouse\* embryo. Overexpression of endomucin-1 strongly inhibited adhesion and aggregation of cells, including cultured endothelial cells from E10.5 dorsal aorta. These data suggest that...

DRUG DESCRIPTORS:

\*cell protein--endogenous compound--\*ec\*

complementary DNA--endogenous compound--\*ec\*; sialoprotein--endogenous compound--\*ec\*; unclassified drug

MEDICAL DESCRIPTORS:

aorta; embryo development; precursor cell; hematopoietic cell; endothelium cell; immunohistochemistry; protein expression; gene overexpression; cell culture; nonhuman; \*mouse\*; controlled study; animal tissue; animal cell; fetus; article; priority journal

DRUG TERMS (UNCONTROLLED) : protein endomucin--endogenous compound--\*ec\*; protein endomucin 1--endogenous compound--\*ec\*

14/3,K/12 (Item 3 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

11199717 EMBASE No: 2001214071

**Identification of human endomucin-1 and -2 as membrane-bound O-sialoglycoproteins with anti-adhesive activity**

Kinoshita M.; Nakamura T.; Ihara M.; Haraguchi T.; Hiraoka Y.; Tashiro K.; Noda M.

M. Noda, Department of Molecular Oncology, Kyoto Univ. Graduate Sch. of  
Med., Yoshida Konoe, Sakyo, Kyoto 606-8501 Japan  
AUTHOR EMAIL: mnoda@virus.kyoto-u.ac.jp  
FEBS Letters / FEBS LETT. / Netherlands 16 JUN 2001, 499/1-2  
(1111-126)  
CODEN: FEBLA ISSN: 0014-5793  
PUBLISHER ITEM IDENTIFIER: S0014579301025200  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 19

Using a \*signal\* \*sequence\* \*trap\* method and database search, we  
identified a series of human cDNAs encoding two structurally related type I  
membrane proteins of (similar) 25 kDa with multiple...

DRUG DESCRIPTORS:

\*glycoprotein--endogenous compound--\*ec\*; \*proteinase--endogenous compound  
--\*ec\*  
membrane enzyme--endogenous compound--\*ec\*; laminin--endogenous compound--  
\*ec\*; staurosporine--endogenous compound--\*ec\*; signal peptide;  
unclassified drug

MEDICAL DESCRIPTORS:

...genetic code; DNA structure; enzyme glycosylation; heart; kidney  
parenchyma; lung parenchyma; gene expression; cell adhesion; enzyme  
substrate; phenotype; enzyme regulation; extracellular matrix; technique;  
human; nonhuman; \*mouse\*; controlled study; human tissue; human cell;  
animal tissue; article; nucleotide sequence; priority journal  
DRUG TERMS (UNCONTROLLED): c sialoglycoprotein endopeptidase--endogenous  
compound--\*ec\*

14/3,K/13 (Item 4 from file: 73)

DIALOG(P)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

10970431 EMBASE No: 2001013778

**A novel low-density lipoprotein receptor-related protein mediating  
cellular uptake of apolipoprotein E-enriched beta-VLDL in vitro**

Sugiyama T.; Kumagai H.; Morikawa Y.; Wada Y.; Sugiyama A.; Yasuda K.;  
Yokoi N.; Tamura S.; Kojima T.; Nosaka T.; Senba E.; Kimura S.; Kadowaki T.  
; Kodama T.; Kitamura T.

T. Kitamura, Department of Hematopoietic Factors, Institute of Medical  
Science, University of Tokyo, 4-6-1 Shirokanedai, Minato-ku, Tokyo  
108-8639 Japan

AUTHOR EMAIL: kitamura@ims.u-tokyo.ac.jp

Biochemistry ( BIOCHEMISTRY ) (United States) 26 DEC 2000, 39/51  
(15817-15825)

CODEN: BICHA ISSN: 0006-2960

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 24

We report here the identification of a novel member of the low-density  
lipoprotein receptor (the LDL receptor) family through \*signal\* \*sequence\*  
\*trap\* screening of a \*mouse\* lymphocyte cDNA library. The protein was  
termed LDL receptor-related protein 9 (LRP9). LRP9 is a type I membrane  
protein predicted to contain 696 amino...

...expressed in the liver, kidney, lung, and heart at high levels, and in  
the spleen and brain at low levels. In situ hybridization analysis of  
\*mouse\* liver, kidney, and brain detected LRP9 transcripts in hepatocytes,  
sinusoidal lining cells, peritubular capillaries, choroid plexus, ependyma  
of the third ventricle, pia matter, and hippocampus...

DRUG DESCRIPTORS:

\*low density lipoprotein receptor--endogenous compound--\*ec\*; \*  
apolipoprotein E--endogenous compound--\*ec\*; \*very low density lipoprotein  
--endogenous compound--\*ec\*; \*membrane protein--endogenous compound--\*ec\*

complementary DNA; proline; endogenous compound--\*ec\*  
MEDICAL DESCRIPTORS:  
DNA library; protein domain; protein expression; in situ hybridization;  
blood vessel wall; lipid transport; nonhuman; \*mouse\*; animal cell; article  
; priority journal

14/3,K/14 (Item 5 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c. 2003 Elsevier Science B.V. All rts. reserv.

10849380 EMBASE No: 2000329264

**Increased expression of H/T-Cadherin in tumor-penetrating blood vessels**

Wyder L.; Vitaliti A.; Schneider H.; Hebrard L.W.; Moritz D.R.; Wittmer M.; Ajmo M.; Klemenz R.

F. Klemenz, University Hospital Zurich, Department of Pathology, Division of Cancer Research, Schmelzbergstrasse 12, 8091 Zurich Switzerland

AUTHOR EMAIL: roman.klemenz@pty.usz.ch

Cancer Research ( CANCER RES. ) (United States) 01 SEP 2000, 60/17  
4681-4688)

CODEN: CNREA ISSN: 0008-5472

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 31

...were subjected to a subtractive hybridization procedure, and cDNAs overrepresented in tumor-derived endothelial cells were isolated; those encoding surface proteins were selected using a \*signal\* \*sequence\* \*trap\* assay. One isolated cDNA encoded H/T-cadherin. In this report, we show that \*mouse\* H/T-cadherin is overexpressed on endothelial cells of several tumors, whereas it is expressed only on a subset of endothelial cells in healthy organs...

**DRUG DESCRIPTORS:**

\*complementary DNA--endogenous compound--\*ec\*; \*cell adhesion molecule  
--endogenous compound--\*ec\*; \*cell surface protein--endogenous compound--  
\*ec\*; \*CD31 antigen--endogenous compound--\*ec\*

**MEDICAL DESCRIPTORS:**

protein expression; lung metastasis; Lewis carcinoma; endothelium cell;  
cancer invasion; human; nonhuman; \*mouse\*; human cell; animal tissue;  
article; priority journal

DRUG TERMS (UNCONTROLLED): H/T cadherin--endogenous compound--\*ec\*

14/3,K/15 (Item 6 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c. 2003 Elsevier Science B.V. All rts. reserv.

10763465 EMBASE No: 2000343678

**Identification of novel membrane and secreted proteins upregulated during adipocyte differentiation**

Tsuruga H.; Kumagai H.; Kojima T.; Kitamura T.

T. Kitamura, Department of Hematopoietic Factors, Institute of Medical Science, University of Tokyo, Tokyo 108-8639 Japan

AUTHOR EMAIL: kitamura@ims.u-tokyo.ac.jp

Biochemical and Biophysical Research Communications ( BIOCHEM. BIOPHYS. RES. COMMUN. ) (United States) 27 MAY 2000, 272/1 (293-297)

CODEN: BBFCA ISSN: 0006-291X

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 14

...presence of 1-methyl-3-isokutylxanthine, dexamethasone, and insulin. We screened a cDNA library derived from differentiated 3T3-L1 cells, using the SST-FEX method (\*signal\* \*sequence\* \*trap\* by retrovirus-mediated expression screening method). Screening of 4 x 10sup 5 clones gave rise to 63 known and 8 novel clones. The known clones...

...specific expression. The present results indicate that adipocytes specific genes or adipocyte differentiation-related genes encoding membrane and secreted proteins can be readily identified if \*signal\* \*sequence\* \*trap\* screening of differentiated adipocyte-derived cDNAs is done. (C)  
2000 Academic Press.

**DRUG DESCRIPTORS:**

\*membrane protein--endogenous compound--\*ec\*  
complementary DNA; cytokine--endogenous compound--\*ec\*; dexamethasone;  
insulin; isobutylmethylxanthine

**MEDICAL DESCRIPTORS:**

DNA library; adipose tissue; protein secretion; screening; nonhuman;  
\*mouse\*; controlled study; animal cell; article; priority journal

14/3,K/16 (Item 7 from file: 73)

DIALOG(F)File 73:EMBASE

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10759461 EMBASE No: 2000237999

**Molecular cloning and characterization of a \*mouse\* homolog of human TNFSF14, a member of the TNF superfamily**

Misawa K.; Nosaka T.; Kojima T.; Hirai M.; Kitamura T.

Dr. T. Kitamura, Department of Hematopoietic Factors, Institute of Medical Science, University of Tokyo, 4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639 Japan

AUTHOR EMAIL: kitamura@ims.u-tokyo.ac.jp

Cytogenetics and Cell Genetics ( CYTOGENET. CELL GENET. ) (Switzerland)  
2000, 89/1-2 (89-91)

CODEN: CGOGB ISSN: 0301-0171

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 14

**Molecular cloning and characterization of a \*mouse\* homolog of human TNFSF14, a member of the TNF superfamily**

...ligand for HVEM/TR2 and human lymphotoxin beta receptor (LTbetaR). TNFSF14 induces apoptosis and suppresses tumor formation. We have isolated a cDNA clone for a \*mouse\* homologue of hTNFSF14 by \*signal\* \*sequence\* \*trap\* (SST) screening which we recently developed. The deduced amino acid sequence of the \*mouse\* TNFSF14 (mTNFSF14) cDNA comprised 239 amino acid residues and was 77% identical to the hTNFSF14 protein. In Northern blot analysis, 2.1 kb and 4...

**DRUG DESCRIPTORS:**

\*complementary DNA--endogenous compound--\*ec\*; \*tumor necrosis factor --endogenous compound--\*ec\*; \*lymphotoxin--endogenous compound--\*ec\*; \*amino acid--endogenous compound--\*ec\*

14/3,K/17 (Item 8 from file: 73)

DIALOG(F)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

07089894 EMBASE No: 1997371759

**Kidney-specific expression of a novel \*mouse\* organic cation transporter-like protein**

Mori K.; Ogawa Y.; Ebihara K.; Aoki T.; Tamura N.; Sugawara A.; Kuwahara T.; Ozaki S.; Mukoyama M.; Tashiro K.; Tanaka I.; Nakao K.

Y. Ogawa, Dept. Medicine and Clinical Science, Kyoto Univ. Graduate School Medicine, Kyoto 606 Japan

AUTHOR EMAIL: ogawa@kuhp.kyoto-u.ac.jp

FEBS Letters ( FEBS LETT. (Netherlands) 1997, 417/3 (371-374)

CODEN: FEBLA ISSN: 0014-5793

PUBLISHER ITEM IDENTIFIER: S0014579397013252

DOCUMENT TYPE: Journal; Article



**Kidney-specific expression of a novel \*mouse\* organic cation transporter-like protein**

Using the \*signal\* \*sequence\* \*trap\* method, we have cloned a novel 12-membrane-spanning transporter-like protein, termed renal-specific transporter (RST), from the \*mouse\* kidney. RST is a 553-amino-acid protein highly homologous to recently cloned organic cation transporters, e.g. it is 30% identical to rat organic...

**DRUG DESCRIPTORS:**

\*carrier protein--endogenous compound--\*ec\*  
catecholamine--endogenous compound--\*ec\*; choline--endogenous compound--\*ec\*; signal peptide--endogenous compound--\*ec\*

**MEDICAL DESCRIPTORS:**

amino acid sequence; animal tissue; article; controlled study; gene expression; in situ hybridization; kidney proximal tubule; male; molecular cloning; \*mouse\*; nonhuman; nucleotide sequence; priority journal; protein analysis; technique

14/3,K/18 (Item 9 from file: 73)

DIALOG(R) File 73:EMBASE

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06331891 EMBASE No: 1995365882

**The murine lymphotoxin-beta receptor cDNA: Isolation by the \*signal\* \*sequence\* \*trap\* and chromosomal mapping**

Nakamura T.; Tashiro K.; Nazarea M.; Nakano T.; Sasayama S.; Honjo T.  
Department of Medical Chemistry, Faculty of Medicine, Kyoto University,  
Yoshida Konoe-cho, Sakyo-ku, Kyoto 606 Japan.

Genomics ( GENOMICS ) (United States: 1995, 30/2 (312-319)

CODEN: GNMCE ISSN: 0888-7543

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

**The murine lymphotoxin-beta receptor cDNA: Isolation by the \*signal\* \*sequence\* \*trap\* and chromosomal mapping**

To isolate novel molecules involved in intercellular signaling during \*mouse\* embryogenesis, we employed the \*signal\* \*sequence\* \*trap\* (SST) method, a newly developed strategy for cloning secreted proteins and type I membrane proteins. We constructed an SST cDNA library of \*mouse\* embryonic heart mRNA, screened 2000 clones, and acquired 1 positive clone that appeared to contain the signal sequence. Homology searches revealed that this clone encodes the \*mouse\* lymphotoxin-beta receptor (LTbeta-R). The deduced amino acid sequence of the \*mouse\* LTbeta-R was 66% identical to that of the human LTbeta-R. Northern analysis of various organs in adult mice showed that expression levels of...

...R mRNA were strong in lung, liver, and kidney, moderate in heart and testis, but weak in brain, thymus, spleen, and lymph nodes. Since the \*mouse\* LTbeta-R was already expressed in 7-day-postcoitus embryo, the LTbeta/LTbeta-R system might have some functions in early embryogenesis. We performed chromosomal mapping of the murine LTbeta-R gene by linkage analysis with recombinant inbred \*mouse\* strains and found that its locus is very close to the tumor necrosis factor receptor 1 gene on chromosome 6.

**DRUG DESCRIPTORS:**

\*tumor necrosis factor receptor; \*tumor necrosis factor--endogenous compound--\*ec\*  
complementary dna--endogenous compound--\*ec\*; messenger rna--endogenous compound--\*ec\*

**MEDICAL DESCRIPTORS:**

animal tissue; article; chromosomal localization; chromosome 6; chromosome map; controlled study; heart; kidney; liver; lung; \*mouse\*; nonhuman;

priority journal; receptor gene; testis; tissue distribution  
ids

Set	Items	Description
S1	0	(EBV-BASED) OR (POLYOMA-BASED) AND (ES OR EG OR EC)
S2	1	(EBV-BASED) OR (POLYOMA-BASED) AND (SIGNAL W. SEQUENCE - (W. TRAP)
S3	0	(EPISOMAL ADJ VECTOR?) AND (ES OR EG OR EC)
S4	86	(EPISOMAL W. VECTOR?) AND (ES OR EG OR EC)
S5	0	S4 AND (REPLICATION W. FACTOR?)
S6	1	S4 AND (SIGNAL W. SEQUENCE W. TRAP)
S7	10	S4 AND (MOUSE)
S8	17	RD (unique items)
S9	4	S4 AND (LIBRARY OR LIBRARIES)
S10	4	RD (unique items)
S11	0	(SIGNAL (W) SEQUENCE (W) TRAP) AND (EPISOMAL (W) VECTOR?)
S12	33	(SIGNAL (W) SEQUENCE (W) TRAP) AND (ES OR EG OR EC)
S13	23	S12 AND MOUSE
S14	18	RD (unique items)

1rd s12

...completed examining records

S15 28 RD S12 (unique items)

2s s15 not s14

28 S15

18 S14

S16 10 S15 NOT S14

16/3,K/all

16/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

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12581048 21490776 PMID: 11604505

**Identification of a role for the sialomucin CD164 in myogenic differentiation by signal sequence trapping in yeast.**

Lee Y N; Kang J S; Krauss R S

Department of Biochemistry and Molecular Biology, Mount Sinai School of Medicine, New York, NY 10029, USA.

Molecular and cellular biology (United States) Nov 2001, 21 (22)

p7696-706, ISSN 0270-7306 Journal Code: 8103087

Contract/Grant No.: AR46207; AR; NIAMS; CA59474; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... participants in cell contact-mediated regulation of myogenesis, genes that encode secreted proteins specifically upregulated during differentiation of C2C12 myoblasts were identified by the yeast \*signal\* \*sequence\* \*trap\* method (K. A. Jacobs, L. A. Collins-Racie, M. Colbert, M. Duckett, M. Golden-Fleet, K. Kelleher, R. Kriz, E. R. La Vallie, D. Merberg

Enzyme No.: \*EC\* 3.2.1.18 (Neuraminidase); \*EC\* 3.4.24 (Metalloendopeptidases; \*EC\* 3.4.24.57 (C-sialoglycoprotein endopeptidase)

16/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

11199083 21228636 PMID: 11329881

**Establishment of suc2 \*signal\* \*sequence\* \*trap\* system]**

Sun Q; Wang J S; Li R; Zhou P; Huang H Y; Han H

Department of Biochemistry and Molecular Biology, Fourth Military Medical University, Xi'an 710032, China.

Yi chuan xue bao = Acta Genetica Sinica China 2001, 4, p379-84  
ISSN 0379-4172 Journal Code: 7900784  
Document type: Journal Article ; English Abstract  
Languages: CHINESE  
Main Citation Owner: NLM  
Record type: Completed

**Establishment of suc2 \*signal\* \*sequence\* \*trap\* system]**

Enzyme No.: \*EC\* 3.2.1. (Glycoside Hydrolases); \*EC\* 3.2.1.26  
(beta-D-fructofuranosidase)

**16/3,K/3 (Item 3 from file: 155)**

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10968431 10421761 PMID: 10964959

**Netrin-G1: a novel glycosyl phosphatidylinositol-linked mammalian netrin that is functionally divergent from classical netrins.**

Nakashiba T; Ikeda T; Nishimura S; Tashiro K; Honjo T; Culotti J G; Itchaha S

Laboratory for Behavioral Genetics, Brain Science Institute, RIKEN, Hirotsawa, Wako, Saitama 351-0198, Japan.

Journal of neuroscience : the official journal of the Society for Neuroscience (UNITED STATES) Sep 1 2000, 20 (17) p6540-50, ISSN 0270-6474 Journal Code: 8102140

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

UNC-6/netrins compose a small phylogenetically conserved family of proteins that act as axon guidance cues. With a \*signal\* \*sequence\* \*trap\* method, we isolated a cDNA encoding a novel member of the UNC-6/netrin family, which we named netrin-G1. Unlike classical netrins, netrin-G1...

Enzyme No.: \*EC\* 3.1.4.10 (1-phosphatidylinositol phosphodiesterase); \*EC\* 3.1.4.3 (Phospholipase C)

**16/3,K/4 (Item 4 from file: 155)**

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10645079 10175911 PMID: 10710443

**Signal-exon trap: a novel method for the identification of signal sequences from genomic DNA.**

Peterfy M; Gyuris T; Takacs L

Department of Biomedical Science, Amgen Inc., Thousand Oaks, CA 91320, USA.

Nucleic acids research (ENGLAND) Apr 1 2000, 28 (7) pE26, ISSN 1362-4962 Journal Code: 0411011

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

We describe a genomic DNA-based \*signal\* \*sequence\* \*trap\* method, signal-exon trap (SET), for the identification of genes encoding secreted and membrane-bound proteins. SET is based on the coupling of an exon...

Enzyme No.: \*EC\* 3.4.14.5 (Antigens, CD26)

**16/3,K/5 (Item 5 from file: 155)**

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10165160 99145581 PM 9990055

**Trapping cDNAs encoding secreted proteins from the salivary glands of the malaria vector Anopheles gambiae.**

Arca B; Lombardo F; de Lara Capurro M; della Torre A; Dimopoulos G; James A A; Coluzzi M

Istituto di Parassitologia, Fondazione "Istituto Pasteur-Cenci Eolagnetti," Universita di Roma "La Sapienza," 00185 Rome, Italy.  
b.arca@caspur.it

Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) Feb 16 1999, 96 (4): p1516-21, ISSN 0027-8424  
Journal Code: 7505876

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

The \*signal\* \*sequence\* \*trap\* method was used to isolate cDNAs corresponding to proteins containing secretory leader peptides and whose genes are expressed specifically in the salivary glands of the...

Enzyme No.: \*EC\* 3.6.1.5 (Apyrase)

**16/3,K/6 (Item 1 from file: 73)**

DIALOG(P)File 73:EMBASE

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11291761 EMBASE No: 2001306623

**Trapping parasite secretory proteins in baker's yeast**

Nene V.; Bishop R.

V. Nene, Intl. Livestock Research Institute, PO Box 30709, Nairobi Kenya

AUTHOR EMAIL: v.nene@cgiar.org

Trends in Parasitology ( TRENDS PARASITOL. ) (United Kingdom) 01 SEP 2001, 17/9 (407-409)

CODEN: TPRAC ISSN: 1471-4922

PUBLISHER ITEM IDENTIFIER: S1471492201090293

DOCUMENT TYPE: Journal ; Review

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 19

...secretory proteins. The latter entail insertion of heterologous signals upstream of signal peptide deleted reporter genes. We discuss the advantages of using Saccharomyces cerevisiae for \*signal\* \*sequence\* \*trap\* technology. The yeast protein-translocation system appears to be less discriminating than that of higher eukaryotes - for example, a Theileria parva cysteine protease gene containing...

DRUG DESCRIPTORS:

\*secretory protein--endogenous compound--\*ec\*

**16/3,K/7 (Item 2 from file: 73)**

DIALOG(P)File 73:EMBASE

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07086092 EMBASE No: 1999164840

**A \*signal\* \*sequence\* \*trap\* based on a constitutively active cytokine receptor**

Kojima T.; Kitamura T.

T. Kitamura, Department of Hematopoietic Factors, Institute of Medical Science, University of Tokyo, Minato-ku, Tokyo 108 Japan

AUTHOR EMAIL: kitamura@ims.u-tokyo.ac.jp

Nature Biotechnology ( NAT. BIOTECHNOL. ) (United States) 1999, 17/5 487-490

CODEN: NABIF ISSN: 1087-0156

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 1

**A \*signal\* \*sequence\* \*trap\* based on a constitutively active cytokine receptor**

...clones were found to encode secreted and cell- surface proteins. In addition, we isolated type II membrane proteins, which have not been detected by existing \*signal\* \*sequence\* \*trap\* strategies.

**DRUG DESCRIPTORS:**

\*signal peptide--endogenous compound--\*ec\*; \*cytokine receptor--endogenous compound--\*ec\*; \*complementary DNA--endogenous compound--\*ec\*; \*interleukin 3--endogenous compound--\*ec\*  
cell surface protein--endogenous compound--\*ec\*; membrane protein  
--endogenous compound--\*ec\*; granulocyte macrophage colony stimulating factor--endogenous compound--\*ec\*

16/3,K/8 (Item 3 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

07151714 EMBASE No: 1998040104

**Identification of a neutrophil gelatinase-associated lipocalin mRNA in human pancreatic cancers using a modified \*signal\* \*sequence\* \*trap\* method**

Furutani M.; Arai S.; Mizumoto M.; Kato M.; Imamura M.

M. Furutani, Dept. Surgery Surgical Basic Science, Graduate School of

Medicine, 54 Shogoin-kawahara-cho, Sakyo-ku, Kyoto 606-01 Japan

Cancer Letters ( CANCER LETT. ) (Ireland) 09 JAN 1998, 122/1-2 (209-214)

CODEN: CALEK ISSN: 0304-3835

PUBLISHER ITEM IDENTIFIER: S0304383597003911

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 11

**Identification of a neutrophil gelatinase-associated lipocalin mRNA in human pancreatic cancers using a modified \*signal\* \*sequence\* \*trap\* method**

...the intercellular signal-transducing proteins and receptors produced by cancer cells, we attempted to clone cDNAs encoding secreted and type I membrane proteins using a \*signal\* \*sequence\* \*trap\* (SST) method with some modifications. By screening an SST library derived from pancreatic cancer cells, we identified two secretory proteins (neutrophil gelatinase-associated lipocalin (NGAL...

**DRUG DESCRIPTORS:**

\*messenger rna--endogenous compound--\*ec\*; \*signal peptide--endogenous compound--\*ec\*; \*lipocalin--endogenous compound--\*ec\*  
complementary dna--endogenous compound--\*ec\*; membrane protein--endogenous compound--\*ec\*; secretory protein--endogenous compound--\*ec\*; lung  
surfactant--endogenous compound--\*ec\*; protein--endogenous compound--\*ec\*; carcinoembryonic antigen--endogenous compound--\*ec\*; cytochrome c oxidase  
--endogenous compound--\*ec\*; gelatinase--endogenous compound--\*ec\*

16/3,K/9 (Item 4 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

06713499 EMBASE No: 1996378468

**\*Signal\* \*sequence\* \*trap\* to clone cDNAs encoding secreted or membrane-associated plant proteins**

Kristoffersen P.; Teichmann T.; Stracke R.; Palme K.

Max Delbrück-Laboratorium, Max-Planck-Gesellschaft, Carl-von-Linne-Weg

10, D-50829 Köln Germany

Analytical Biochemistry ( ANAL. BIOCHEM. ) (United States) 1996, 243/1 (127-132)

CODEN: ANBCA ISSN: 0003-2697

DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

**\*Signal\* \*sequence\* \*trap\* to clone cDNAs encoding secreted or membrane-associated plant proteins**

DRUG DESCRIPTORS:

\*complementary dna--endogenous compound--\*ec\*; \*plant dna--endogenous compound--\*ec\*; \*signal peptide--endogenous compound--\*ec\*

16/3,K/10 (Item 5 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2003 Elsevier Science B.V. All rts. reserv.

06606058 EMBASE No: 1996270824

**Molecular cloning of a novel T cell-directed CC chemokine expressed in thymus by \*signal\* \*sequence\* \*trap\* using Epstein-Barr virus vector**

Imai T.; Yoshida T.; Baba M.; Nishimura M.; Kakizaki M.; Yoshie C.  
Shionogi Inst. for Medical Research, 2-5-1 Mishima, Settsu-shi, Osaka 566 Japan

Journal of Biological Chemistry ( J. BIOL. CHEM. ) (United States) 1996  
271/35 (21514-21521)

CODEN: JBCHA ISSN: 0021-9258

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

**Molecular cloning of a novel T cell-directed CC chemokine expressed in thymus by \*signal\* \*sequence\* \*trap\* using Epstein-Barr virus vector**

Precursors of most secreted and cell surface molecules carry signal sequences at their amino termini. Here we describe an efficient \*signal\* \*sequence\* \*trap\* method and isolation of a novel CC chemokine. An expression library was constructed by inserting 5' portion-enriched cDNAs from phytohemagglutinin-stimulated peripheral blood mononuclear...

DRUG DESCRIPTORS:

beta 2 microglobulin; cd4 antigen--endogenous compound--\*ec\*; complementary dna; guanine nucleotide binding protein; interleukin 8; macrophage inflammatory protein lalpha; pertussis toxin; phytohemagglutinin; rantes; t lymphocyte receptor  
?ds

Set	Items	Description
S1	0	((EBV-BASED) OR (POLYOMA-BASED)) AND (ES OR EG OR EC)
S2	0	((EBV-BASED) OR (POLYOMA-BASED)) AND (SIGNAL (W) SEQUENCE - (W) TRAP)
S3	0	(EPISOMAL ADJ VECTOR?) AND (ES OR EG OR EC)
S4	96	(EPISOMAL (W) VECTOR?) AND (ES OR EG OR EC)
S5	0	S4 AND (REPLICATION (W) FACTOR?)
S6	0	S4 AND (SIGNAL (W) SEQUENCE (W) TRAP)
S7	30	S4 AND (MOUSE)
S8	17	FD (unique items)
S9	4	S4 AND (LIBRARY OR LIBRARIES)
S10	4	FD (unique items)
S11	0	(SIGNAL (W) SEQUENCE (W) TRAP) AND (EPISOMAL (W) VECTOR?)
S12	32	(SIGNAL (W) SEQUENCE (W) TRAP) AND (ES OR EG OR EC)
S13	23	S12 AND MOUSE
S14	18	FD (unique items)
S15	28	FD S12 (unique items)
S16	10	S15 NOT S14

?rd s4

...examined 50 records (50)

...completed examining records

S17 74 FD S4 (unique items)

?s s17 and (library or libraries)

74 S17

118871 LIBRARY

32164 LIBRARY  
S18 4 S17 AND (LIBRARY OR LIBRARIES  
?t s18/3,k/all

18/3,K/1 (Item 1 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2003 The Dialog Corp. All rts. reserv.

06921129 91232963 PMID: 1709496

**A novel BK virus-based \*episomal\* \*vector\* for expression of foreign genes in mammalian cells.**

De Benedetti A; Rhoads R E  
Department of Biochemistry, University of Kentucky College of Medicine,  
Lexington 40536.

Nucleic acids research (ENGLAND); Apr 25 1991, 19 (8) p1925-31,  
ISSN 0305-1048 Journal Code: 0411011

Contract/Grant No.: GM21818; GM; NIGMS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**A novel BK virus-based \*episomal\* \*vector\* for expression of foreign genes in mammalian cells.**

... copy number. Transformation of bacteria with plasmid molecules retrieved from the mammalian host was efficient, making this vector well adapted for the screening of cDNA \*libraries\* for the ability to express a phenotype in mammalian cells. Moreover, DNA sequences were stable during long-term passage in mammalian cells; vector passaged continuously...

Enzyme No.: \*EC\* 2.3.1.28 (Chloramphenicol O-Acetyltransferase)

18/3,K/2 (Item 2 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2003 The Dialog Corp. All rts. reserv.

05500528 87250519 PMID: 3036836

**Isolation and characterization of the nuclear gene encoding the Rieske iron-sulfur protein (RIP1) from *Saccharomyces cerevisiae*.**

Beckmann J D; Ljungdahl F O; Lopez J L; Trumpower B L

Journal of biological chemistry (UNITED STATES) Jun 25 1987, 262 (18)  
p8901-9, ISSN 0021-9258 Journal Code: 2985121R

Contract/Grant No.: GM10575-02; GM; NIGMS; GM20379; GM; NIGMS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... Biochem. 149, 95-99) to detect the yeast gene by Southern analysis. Five different but overlapping clones were then isolated by probing a yeast genomic \*library\* carried on YEp 13 by colony lift hybridization. Several approaches confirmed that the isolated DNA contained the gene for the Rieske iron-sulfur protein. The...

... deficient integrant was transformed to GLY+ by a 2-kilobase pair HindIII-BglII fragment, including a complete copy of the gene, carried on a multicopy \*episomal\* \*vector\*. Immunoblots with monoclonal antibodies to the iron-sulfur protein indicated overproduction of the protein in the complemented strain and revealed expression of approximately equal amounts ...

Enzyme No.: \*EC\* 3.1.21 (DNA Restriction Enzymes)

18/3,K/3 (Item 1 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2003 Elsevier Science B.V. All rts. reserv.

06260728 EMBASE No: 1995291053

**Human cDNA clones that modify radiomimetic sensitivity of ataxia-telangiectasia (group A) cells**

Ziv Y.; Bar-Shira A.; Jorgensen T.J.; Russell P.S.; Sartiel A.; Shows T.B.; Eddy R.L.; Buchwald M.; Legerski R.; Schimke R.T.; Shiloh Y.  
Department of Human Genetics, Sackler School of Medicine, Tel Aviv University, Ramat Aviv 69978 Israel  
Somatic Cell and Molecular Genetics ( SOMATIC CELL MOL. GENET. ) United States: 1995, 21/2 (99-111)  
CODEN: SCMGD ISSN: 0740-7750  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...cDNA clones that modify the radiomimetic sensitivity of A-T cells assigned to complementation group (A- T(A)). The cells were transfected with human cDNA \*libraries\* cloned in \*episomal\* \*vectors\*, and various protocols of radiomimetic selection were applied. Thirteen cDNAs rescued from survivor cells were found to confer various degrees of radiomimetic resistance to A...

**DRUG DESCRIPTORS:**

dna--endogenous compound--\*ec\*

**MEDICAL DESCRIPTORS:**

article; clinical protocol; controlled study; dna damage; dna \*library\*;  
dna replication origin; dna synthesis; episome; gene transfer; genetic complementation; human; human cell; ionizing radiation; priority journal; radiation response

18/3,K/4 (Item 2 from file: 73)

DIALOG(R.File 73:EMBASE

(c) 2003 Elsevier Science B.V. All rts. reserv.

05044654 EMBASE No: 1992184870

**Cloning muscle isoforms of neural cell adhesion molecule using an episomal shuttle vector**

Fan L.C.; Margolskee R.F.; Blau H.M.  
Research Division, Hospital for Special Surgery, 535 East 70th Street, New York, NY 10021 United States  
Somatic Cell and Molecular Genetics ( SOMATIC CELL MOL. GENET. ) (United States: 1992, 18/2 (163-177)  
CODEN: SCMGD ISSN: 0740-7750  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

...neural cell adhesion molecule (NCAM) are induced during the differentiation of C2C12 myoblasts into myotubes. Corresponding NCAM clones were isolated from a mouse muscle cDNA \*library\* made in an Epstein-Barr virus shuttle vector that replicates extrachromosomally in human cells. Following transfection with the \*library\*, human cells expressing mouse NCAM were enriched using the fluorescence-activated cell sorter. Episomal NCAM clones recovered from sorted cells contain an 18-bp insert...

...to myogenesis from the earliest stages of differentiation. Moreover, our studies demonstrate the feasibility of cloning tissue-specific molecules by transfection and expression of cDNA \*libraries\* in \*episomal\* \*vectors\*.

**DRUG DESCRIPTORS:**

\*nerve cell adhesion molecule--endogenous compound--\*ec\*  
complementary dna--endogenous compound--\*ec\*; phosphatidylinositol 3ds

Set	Items	Description
S1	0	((EBV-EASED) CR (POLYOMA-EASED)) AND (ES CR EG CR EC)
S2	0	((EBV-EASED) CR (POLYOMA-EASED)) AND (SIGNAL (W) SEQUENCE - (W) TRAP)
S3	0	EPISOMAL AD. VECTOR; AND (ES CR EG CR EC)



S4 86 EPISCIMAL (W) VECTOR? AND (ES OR EG OR EC)  
 S5 0 S4 AND (REPLICATION (W) FACTOR?)  
 S6 0 S4 AND (SIGNAL (W) SEQUENCE (W) TRAP)  
 S7 20 S4 AND (MOUSE)  
 S8 17 PD (unique items)  
 S9 4 S4 AND (LIBRARY OR LIBRARIES)  
 S10 4 PD (unique items)  
 S11 0 (SIGNAL (W) SEQUENCE (W) TRAP) AND (EPISCIMAL (W) VECTOR?)  
 S12 33 (SIGNAL (W) SEQUENCE (W) TRAP) AND (ES OR EG OR EC)  
 S13 23 S12 AND MOUSE  
 S14 18 PD (unique items)  
 S15 28 PD S12 (unique items)  
 S16 10 S15 NOT S14  
 S17 74 PD S4 (unique items)  
 S18 4 S17 AND (LIBRARY OR LIBRARIES)

?s s17 and 'plurality (w) of (w) vectors.

74 S17  
 4349 PLURALITY  
 0 OF  
 103907 VECTORS

0 PLURALITY (W) OF (W) VECTORS  
 S19 0 S17 AND (PLURALITY (W) OF (W) VECTORS)

?s s17 and 'first or second or third (w) vector

74 S17  
 1984548 FIRST  
 924394 SECOND  
 452599 THIRD  
 198302 VECTOR  
 295 (FIRST OR SECOND) OR THIRD (W) VECTOR

S20 0 S17 AND ((FIRST OR SECOND OR THIRD) (W) VECTOR)

?ds

Set	Items	Description
S1	0	((EBV-BASED) OF (POLYOMA-BASED)) AND (ES OR EG OR EC)
S2	0	((EBV-BASED) OF (POLYOMA-BASED)) AND (SIGNAL (W) SEQUENCE - (W) TRAP)
S3	0	(EPISCIMAL ADJ VECTOR?) AND (ES OR EG OR EC)
S4	86	(EPISCIMAL (W) VECTOR?) AND (ES OR EG OR EC)
S5	0	S4 AND (REPLICATION (W) FACTOR?)
S6	0	S4 AND (SIGNAL (W) SEQUENCE (W) TRAP)
S7	20	S4 AND (MOUSE)
S8	17	PD (unique items)
S9	4	S4 AND (LIBRARY OR LIBRARIES)
S10	4	PD (unique items)
S11	0	(SIGNAL (W) SEQUENCE (W) TRAP) AND (EPISCIMAL (W) VECTOR?)
S12	33	(SIGNAL (W) SEQUENCE (W) TRAP) AND (ES OR EG OR EC)
S13	23	S12 AND MOUSE
S14	18	PD (unique items)
S15	28	PD S12 (unique items)
S16	10	S15 NOT S14
S17	74	PD S4 (unique items)
S18	4	S17 AND (LIBRARY OR LIBRARIES)
S19	0	S17 AND (PLURALITY (W) OF (W) VECTORS)
S20	0	S17 AND ((FIRST OR SECOND OR THIRD) (W) VECTOR)

?logoff

05feb03 17:01:04 User259876 Session D459.2

\$5.75 1.795 DialUnits File155  
 \$5.25 15 Type(s) in Format 3  
 \$5.25 25 Types  
 \$11.00 Estimated cost File155  
 \$5.81 1.039 DialUnits File5  
 \$5.81 Estimated cost File5  
 \$16.90 1.878 DialUnits File73  
 \$70.00 28 Type(s) in Format 3  
 \$70.00 28 Types  
 \$86.90 Estimated cost File73

OneSearch, 3 Files, 4.712 DialUnits FileOS  
\$5.36 TELNET  
\$109.07 Estimated cost this search  
\$109.48 Estimated total session cost 4.812 DialUnits

### Status: Signed Off. (23 minutes)

\*\*\* Status: Path 1 of [Dialog Information Services via Modem]

\*\*\* Status: Initializing TCP/IP using UseTelnetProto 1 ServiceID pto-dialog,  
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES

PLEASE LOGIN:

\*\*\*\*\* HHHHHHHH SSSSSSSS?

\*\*\* Status: Signing onto Dialog

\*\*\*\*\*

ENTER PASSWORD:

\*\*\*\*\* HHHHHHHH SSSSSSSS? \*\*\*\*\*

Welcome to DIALOG

\*\*\* Status: Connected

Dialog level 02.12.400

Last logoff: 06fer03 17:01:09

Login file001 06fer03 17:51:09

\*\*\* ANNOUNCEMENT \*\*\*

\*\*\*

--File 515 D&B Dun's Electronic Business Directory is now online  
completely updated and redesigned. For details, see HELP NEWS 515.

\*\*\*

--File 990 - NewsRoom now contains October 2002 to present records.  
File 993 - NewsRoom archive contains 2002 records from January 2002-  
September 2002. To search all 2002 records, BEGIN 990,993 or B NEWS2002

\*\*\*

--Alerts have been enhanced to allow a single Alert profile to be  
stored and run against multiple files. Duplicate removal is available  
across files and for up to 12 months. The Alert may be run according  
to the file's update frequency or according to a custom  
calendar-based schedule. There are no additional prices for these  
enhanced features. See HELP ALERT for more information.

\*\*\*

--U.S. Patents Fulltext (File 654) has been redesigned with  
new search and display features. See HELP NEWS 654 for  
information.

\*\*\*

--Connect Time joins DialUnits as pricing options on Dialog.  
See HELP CONNECT for information.

\*\*\*

--CLAIMS/US Patents (Files 340, 341, 342) have been enhanced  
with both application and grant publication level in a  
single record. See HELP NEWS 340 for information.

\*\*\*

--SourceOne patents are now delivered to your email inbox  
as PIF replacing TIFF delivery. See HELP SOURCE1 for more  
information.

\*\*\*

--Important news for public and academic  
libraries. See HELP LIBRARY for more information.

\*\*\*

--Important Notice to Freelance Authors--  
See HELP FREELANCE for more information

\*\*\*

For information about the access to file 43 please see Help News43.

\*\*\*

NEW FILES RELEASED

\*\*\*Dialog NewsRoom - Current 3-4 months (File 990)

\*\*\*Dialog NewsRoom - 2002 Archive (File 993)

\*\*\*Dialog NewsRoom - 2001 Archive (File 994)

\*\*\*Dialog NewsRoom - 2000 Archive (File 995)

\*\*\*TRADEMARKSCAN-Finland (File 679)

\*\*\*TRADEMARKSCAN-Norway (File 678)  
\*\*\*TRADEMARKSCAN-Sweden (File 675)

\*\*\*

#### UPDATING RESUMED

\*\*\*Delphes European Business (File 481)

\*\*\*

#### RELOADED

\*\*\*D&B Dun's Electronic Business Directory (File 515)  
\*\*\*U.S. Patents Fulltext 1976-current (File 654)  
\*\*\*Population Demographics (File 581)  
\*\*\*Kimpass Western Europe (File 590)  
\*\*\*I&B - Dun's Market Identifiers (File 516)

#### REMOVED

\*\*\*Chicago Tribune (File 632)  
\*\*\*Fort Lauderdale Sun Sentinel (File 497)  
\*\*\*The Orlando Sentinel (File 705)  
\*\*\*Newport News Daily Press (File 747)  
\*\*\*U.S. Patents Fulltext 1980-1989 (File 653)  
\*\*\*Washington Post (File 146)  
\*\*\*Books in Print (File 470)  
\*\*\*Court Filings (File 793)  
\*\*\*Publishers, Distributors & Wholesalers of the U.S. (File 450)  
\*\*\*State Tax Today (File 791)  
\*\*\*Tax Notes Today (File 790)  
\*\*\*Worldwide Tax Daily (File 796)

\*\*\*TCXNET data is added to TcxFile (F156)

\*\*\*New document supplier\*\*\*

IMED has been changed to INFOTRIE (see HELP CINFOTRI)

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<  
>>> of new databases, price changes, etc. <<<  
\*\*\*\*

KWIC is set to 50.

HIGHLIGHT set on as '\*'

\* \* New CUPRENT Year ranges installed \*\*

File 1:ERIC 1966-2003/Jan 22  
(c) format only 2003 The Dialog Corporation

Set Items Description

-----

Cost is in DialUnits

7b 155

06feb13 17:51:16 User259876 Session D460.1  
\$0.33 0.094 DialUnits File1  
\$0.33 Estimated cost File1  
\$0.04 TELNET  
\$0.37 Estimated cost this search  
\$0.37 Estimated total session cost 0.094 DialUnits

File 155:MEDLINE(R) 1966-2003/Feb W1  
(c) format only 2003 The Dialog Corp.

Set Items Description

-----

7s (signal (w) sequence (w) trap)

199483 SIGNAL

580277 SEQUENCE

8339 TRAP

S1 47 SIGNAL (W) SEQUENCE (W) TRAP

7s s1 and 'ES or 'stem (w) cell

47 S1  
 15469 ES  
 109292 STEM  
 2270573 CELL?  
 61894 STEM(W, CELL?  
 S2 4 S1 AND (ES OR STEM (W, CELL?  
 Os s1 and differentiation)  
 4 S2  
 196798 DIFFERENTIATION  
 S3 1 S2 AND (DIFFERENTIATION)  
 1rd  
 ...completed examining records  
 S4 1 RD unique items)  
 It s4/3,k/all

#### 4/3,K/1

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10809185 20357613 PMID: 10896732

#### **Cloning of murine glycosyl phosphatidylinositol anchor attachment protein, GPAA1.**

Hiroi Y; Chen R; Sawa H; Hosoda T; Kudo S; Kobayashi Y; Aburatani H; Nagashima K; Nagai R; Yazaki Y; Medof M E; Komuro I

Department of Cardiovascular Medicine, University of Tokyo Graduate School of Medicine, Tokyo 113-8655, Japan.

American Journal of physiology. Cell physiology (UNITED STATES; Jul 2000, 279 (1) p0205-12, ISSN 0363-6143 Journal Code: 100901225

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... a transamidase reaction mediated by a GPI transamidase complex. We isolated one of the components of this complex, mGPAA1 (murine GPI anchor attachment), by the \*signal\* \*sequence\* \*trap\* method. mGPAA1 cDNA is about 2 kb in length and encodes a putative 621 amino acid protein. The mGPAA1 gene has 12 small exons and...

... is abundant in the choroid plexus, skeletal muscle, osteoblasts of rib, and occipital bone in mouse embryos. Its expression levels and transamidation efficiency decreased with \*differentiation\* of embryonic \*stem\* \*cells\*. The 3T3 cell lines expressing antisense mGPAA1 failed to express GPI-anchored proteins on the cell surface membrane.

...; ME; Base Sequence--genetics--GE; DNA, Complementary--genetics--GE; Embryo--metabolism--ME; Genome; Mice; Molecular Sequence Data; Pregnancy Proteins--metabolism--ME; RNA, Messenger--metabolism--ME; \*Stem\* \*Cells\* --metabolism--ME; Tissue Distribution

#### 4/3,K/2

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10905395 20347021 PMID: 10891475

#### **ESOP-1, a secreted protein expressed in the hematopoietic, nervous, and reproductive systems of embryonic and adult mice.**

Kato K; Morrison A M; Nakano T; Tashiro K; Honjo T

Department of Medical Chemistry, Faculty of Medicine, Kyoto University, Yoshida, Sakyo-ku, Japan.

Blood (UNITED STATES) Jul 1 2000, 96 (1) p362-4, ISSN 0006-4971

Journal Code: 7613509

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

To isolate soluble factors expressed in early phases of hematopoietic \*differentiation\*, we applied the \*signal\* \*sequence\* \*trap\* method to the in vitro murine hematopoietic \*differentiation\* system, in which \*ES\* cells are cocultured with CF-F stroma cells. This strategy allowed us to isolate cDNA for a secreted protein, ESOP-1, of 160 amino acids...

Descriptors: Hematopoietic \*Stem\* \*Cells\*--metabolism--ME; \*Nervous System\*--metabolism--ME; \*Proteins\*--genetics--GE  
1ds

Set	Items	Description
S1	47	(SIGNAL (W) SEQUENCE (W) TRAP)
S2	4	S1 AND (ES OR (STEM (W) CELL?))
S3	2	S2 AND (DIFFERENTIATION)
S4	2	RD (unique items)

1s s2 not s3

4 S2

2 S3

S5 2 S2 NOT S3

1t s5/3,k/all

5/3,K/1

DIALOG(R)File 155:MEDLINE(R)

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14412902 20450110 PMID: 12563419

**A yeast-based model system for cloning secreted and membrane proteins.**

Surpili Marcelo J; Muller-Eberhard Bernd; Willmitzer Lothar

Institut für Genbiologische Forschung Berlin GmbH, Berlin, Germany.  
msurpili@lnls.br

Anais da Academia Brasileira de Ciencias (Brasil) 01 24 2003, 74 (4)

p599-608, ISSN 1801-3765 Journal Code: 7503280

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: In Process

... cell organelles and membranes, or of proteins destined to secretion, is coordinated by signal sequences located at the 5'-end of their respective genes. A \*signal\* \*sequence\* \*trap\* system was envisaged in which a truncated version of the yeast acid phosphatase pho5 gene lacking the start codon and signal sequence could serve as...

...signal sequence. Two unknown sequences displaying marked tissue-specific expression were retrieved, one of them (YE139) with a higher expression level in green buds and \*stem\* \*cells\*, and the other one (YE290) with a higher expression level in androecium, gynoecium, and roots. The limitations of the system are further analyzed using other...

5/3,K/2

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

11359403 21439989 PMID: 11554756

**Endomucin is expressed in embryonic dorsal aorta and is able to inhibit cell adhesion.**

Ueno M; Igarashi K; Kimura N; Okita K; Takizawa M; Nobuhisa I; Kojima T; Kitamura T; Samulowicz U; Vestweber D; Shimomura T; Suda T; Nakashima K; Taga T

Department of Cell Fate Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University, 2-2-1, Honjo, Kumamoto 860-0811, Japan.

Biochemical and biophysical research communications (United States) Sep 21 2001, 287 (2) p501-6, ISSN 0006-291X Journal Code: 0372516

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM  
Record type: Completed

... membrane-bound or secretory molecule regulating early hematopoiesis, we screened a cDNA library from dorsal aortas of embryonic day E. 10.5 mice by a \*signal\* \*sequence\* \*trap\* method and obtained a clone encoding a sialoprotein, endomucin-1. Immunohistochemistry revealed that the endomucin-1 transcript was specifically expressed in the endothelial cells of...

...; AN; Aorta--cytology--CY; Aorta--metabolism--ME; Base Sequence; Cell Aggregation--physiology--PH; RNA, Complementary--analysis--AN; Embryo--metabolism--ME; Endothelium, Vascular--metabolism--ME; Hematopoietic \*Stem\* \*Cells\*--physiology--PH; Mice; Molecular Sequence Data; RNA, Messenger--genetics--GE; Sequence Alignment; Sialoglycoproteins--physiology--PH

7ds

Set	Items	Description
S1	47	SIGNAL (W) SEQUENCE (W) TRAP
S2	4	S1 AND (ES OR (STEM (W) CELL?))
S3	3	S2 AND (DIFFERENTIATION)
S4	1	S3 (Unique items)
S5	3	S2 NOT S3
Is s1 and (IL6R or IL6-R or (IL6 (w) receptor))		
	47	S1
	15	IL6R
	1	IL6-R
	1003	IL6
	410046	RECEPTOR
	17	IL6(W)RECEPTOR
S6	3	S1 AND (IL6R OR IL6-R OR (IL6 (W) RECEPTOR))
Is s1 and (receptor)		
	47	S1
	410046	RECEPTOR
S7	11	S1 AND (RECEPTOR)
?t s7/3,k/all		

7/3,K/1

DIALOG(R)File 155:MEDLINE(R)

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12748461 21553291 PMID: 11696859

**\*Signal\*--\*sequence\* \*trap\* in mammalian and yeast cells: a comparison.**

Galliciotti G; Schneider H; Wyder L; Vitaliti A; Wittmer M; Ajmo M; Klemeniz R

Department of Pathology, Division of Cancer Research, University Hospital, Schmelzbergstrasse 12, 8091 Zurich, Switzerland.

Journal of membrane biology (United States) Oct 1 2001, 183 (3) p175-82, ISSN: 0022-2681 Journal Code: 0211301

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**\*Signal\*--\*sequence\* \*trap\* in mammalian and yeast cells: a comparison.**

... the ability of the latter to rescue the translocation of signal sequence-less proteins. In one method, a cDNA library is tested for interleukin 2 \*receptor\* alpha chain translocation to the membrane in COS cells, in another one for invertase secretion from yeast. In this work, we compared the two systems...

7/3,K/2

DIALOG(R)File 155:MEDLINE(R)

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10931998 20573575 PM 11123907

**A novel low-density lipoprotein \*receptor\*-related protein mediating cellular uptake of apolipoprotein E-enriched beta-VLDL in vitro.**

Sugiyama T; Kumagai H; Morikawa Y; Wada Y; Sugiyama A; Yasuda K; Yokoi N; Tamura S; Kojima T; Nosaka T; Senba E; Kimura S; Kadowaki T; Kobama T; Kitamura T

Department of Hematopoietic Factors, The Institute of Medical Science, University of Tokyo, Tokyo 108-8639, Japan.

Biochemistry UNITED STATES, Dec 26 2000, 39 (51): pii817-25, ISSN 0006-2960 Journal Code: 0370623

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**A novel low-density lipoprotein \*receptor\*-related protein mediating cellular uptake of apolipoprotein E-enriched beta-VLDL in vitro.**

We report here the identification of a novel member of the low-density lipoprotein \*receptor\* (the LDL \*receptor\*) family through \*signal\* \*sequence\* \*trap\* screening of a mouse lymphocyte cDNA library. The protein was termed LDL \*receptor\*-related protein 9 (LRP9). LRP9 is a type I membrane protein predicted to contain 696 amino acids with a calculated molecular mass of 74 764...

... walls. Apolipoprotein E (apoE)-enriched beta-VLDL stimulated cellular cholesteryl ester formation in ldl-A7/LRP9. These results raise the possibility that this newly identified \*receptor\*, which is expressed in the liver, may play a physiological role in the uptake of apoE-containing lipoproteins.

Chemical Name: Apolipoproteins E; DNA, Complementary; LDL \*receptor\*-related protein 9; Lipoproteins, LDL; Lipoproteins, VLDL; RNA, Messenger; Receptors, LDL; VLDL \*receptor\*

7/3,K/3

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

10868430 10422763 PMID: 10964959

**Netrin-G1: a novel glycosyl phosphatidylinositol-linked mammalian netrin that is functionally divergent from classical netrins.**

Nakashiba T; Ikeda T; Nishimura S; Tashiro K; Horjo T; Culotti J G; Itchura S

Laboratory for Behavioral Genetics, Brain Science Institute, RIKEN, Hiratsawa, Wako, Saitama 351-0197, Japan.

Journal of neuroscience : the official journal of the Society for Neuroscience (UNITED STATES, Sep 1 2000, 20 (17) p6540-50, ISSN 0270-6474 Journal Code: 8102140

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

UNC-6/netrins compose a small phylogenetically conserved family of proteins that act as axon guidance cues. With a \*signal\* \*sequence\* \*trap\* method, we isolated a cDNA encoding a novel member of the UNC-6/netrin family, which we named netrin-G1. Unlike classical netrins, netrin-G1...

... thalamus, and deep cerebellar nuclei. Its expression was primarily restricted to the CNS. Interestingly, netrin-G1 proteins did not show appreciable affinity to any netrin \*receptor\* examined. Unlike netrin-1, a secreted form of netrin-G1 consistently failed to attract circumferentially growing axons from the cerebellar plate. Our findings suggest that...

Chemical Name: Glycosylphosphatidylinositols; Nerve Tissue Proteins; Receptors, Cell Surface; Recombinant Proteins; netrin \*receptor\*; netrin-G1; 1-phosphatidylinositol phosphodiesterase; Phospholipase C



7/3,K/4

DIALOG(R) File 155: MEDLINE(R)

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10810261 20347167 PMID: 10764796

**TROY, a newly identified member of the tumor necrosis factor \*receptor\* superfamily, exhibits a homology with Edar and is expressed in embryonic skin and hair follicles.**

Kojima T; Morikawa Y; Copeland N G; Gilbert D J; Jenkins N A; Senba E; Kitamura T

Department of Hematopoietic Factors, The Institute of Medical Science, The University of Tokyo, Minato-ku, Tokyo 108-8639, Japan.

Journal of biological chemistry (UNITED STATES) Jul 7 2000, 275 (27) p21742-7, ISSN 0021-9258 Journal Code: 2985121R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**TROY, a newly identified member of the tumor necrosis factor \*receptor\* superfamily, exhibits a homology with Edar and is expressed in embryonic skin and hair follicles.**

In a \*signal\* \*sequence\* \*trap\* screening of the murine brain, we identified a new member of the tumor necrosis factor \*receptor\* superfamily designated TROY. TROY is a type I membrane protein of 416 amino acids with characteristic cysteine-rich motifs in the extracellular domain and a tumor necrosis factor \*receptor\*-associated factor (TRAF) 2 binding sequence in the cytoplasmic domain of 223 amino acids. In fact, activation of nuclear factor kappaB was induced by the...

... a 75% homology with mouse TROY at the amino acid level. The extracellular domain of TROY exhibits an extensive homology with that of Edar, a \*receptor\* that specifies hair follicle fate. TROY mRNA is strongly expressed in brain and embryo and moderately expressed in the heart, lung, and liver but not...

Chemical Name: Membrane Proteins; NF-kappa B; Proteins; RNA, Messenger; Receptors, Tumor Necrosis Factor; TNF \*receptor\*-associated factor 2; TROY protein; ectodysplasin

7/3,K/5

DIALOG(R) File 155: MEDLINE(R)

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10805828 20354996 PMID: 10894944

**Molecular cloning and characterization of a mouse homolog of human TNFSF14, a member of the TNF superfamily.**

Misawa K; Nosaka T; Kojima T; Hirai M; Kitamura T

Department of Hematopoietic Factors, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan.

Cytogenetics and cell genetics (SWITZERLAND) 2000, 89 (1-2) p89-91, ISSN 0301-0171 Journal Code: 0367735

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... TNF) superfamily, human TNFSF14 (hTNFSF14)/HVEM-L (herpes virus entry mediator ligand) was isolated as a cellular ligand for HVEM/TR2 and human lymphotoxin beta \*receptor\* (LTbetaR). TNFSF14 induces apoptosis and suppresses tumor formation. We have isolated a cDNA clone for a mouse homologue of hTNFSF14 by \*signal\* \*sequence\* \*trap\* (SST) screening which we recently developed. The deduced amino acid sequence of the mouse TNFSF14 (mTNFSF14) cDNA comprised 239 amino acid residues and was 77...

7/3,K/6

DIALOG(R) File 155:MEDLINE(R)

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10660993 20197866 PMID: 10783486

**Molecular cloning of a novel type 1 cytokine \*receptor\* similar to the common gamma chain.**

Fujio K; Nosaka T; Kojima T; Kawashima T; Yahata T; Cipeland N G; Gilbert D J; Jenkins N A; Yamamoto K; Nishimura T; Kitamura T

Department of Hematopoietic Factors, the Institute of Medical Science, the University of Tokyo, Tokyo, Japan.

Blood (UNITED STATES) Apr 1 2001, 95 (7) p2204-16, ISSN 0006-4971  
Journal Code: 7613509

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**Molecular cloning of a novel type 1 cytokine \*receptor\* similar to the common gamma chain.**

In a complementary DNA (cDNA) screening of murine Th2-skewed lymphocytes with our recently developed \*signal\* \*sequence\* \*trap\* method termed SST-REX, a novel type 1 cytokine \*receptor\*, Deltal (deltal), was identified. Although deltal is ubiquitously expressed in multiple tissues, the expression level is higher in Th2-skewed lymphocytes than in Th1-skewed ...

...cDNA encodes a 389-amino acid type 1 membrane protein. The extracellular domain of 206 amino acids showed 24% identity with the murine common gamma \*receptor\* that is shared among the receptors for interleukin(IL)-2, IL-4, IL-7, IL-9, and IL-15. The membrane-proximal region of deltal includes a box1 motif, which is important for association with Janus kinases (JAKs), and showed a significant homology with that of the mouse erythropoietin \*receptor\* (EPOR). A box2 motif was also found in close proximity to the box1 region. Dimerization of the cytoplasmic region of deltal alone did not transduce...

...deltal could substitute for that of human EPOR in transmitting proliferative signals and activating JAK2. These results suggest that deltal is a subunit of cytokine \*receptor\* that may be involved in multiple \*receptor\* systems and play a regulatory role in the immune system and hematopoiesis.

Chemical Name: DNA, Complementary; Deltal protein, \*receptor\*; Interleukin-3; Receptors, Colony-Stimulating Factor; Receptors, Cytokine; Erythropoietin; Interleukin-4; Janus kinase 2; Protein-Tyrosine Kinase

7/3,K/7

DIALOG(R) File 155:MEDLINE(R)

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10298724 99260653 PMID: 11331810

**A \*signal\* \*sequence\* \*trap\* based on a constitutively active cytokine \*receptor\*.**

Kojima T; Kitamura T

Department of Hematopoietic Factors, The Institute of Medical Science, University of Tokyo, Japan.

Nature biotechnology (UNITED STATES) May 1999, 17 (5) p487-90,  
ISSN 1087-0136 Journal Code: 9604648

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**A \*signal\* \*sequence\* \*trap\* based on a constitutively active cytokine \*receptor\*.**

... We have developed a method that detects signal sequences in cDNA fragments based on their ability to redirect a constitutively active mutant of a cytokine \*receptor\* to the cell surface, thereby permitting interleukin-3 (IL-3)-independent growth of Ba/F3 cells. Retrovirus-mediated expression of the fusions in IL-3...

... clones were found to encode secreted and cell-surface proteins. In addition, we isolated type II membrane proteins, which have not been detected by existing \*signal\* \*sequence\* \*trap\* strategies.

7/3,K/8

DIALOG(R)File 155:MEDLINE(R)

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09599507 99030401 PMID: 9365119

**Novel lymphocyte-specific CC chemokines and their receptors.**

Yoshie O; Imai T; Nomiyama H

Shionogi Institute for Medical Science, Osaka, Japan.

Journal of leukocyte biology (UNITED STATES) Nov 1997, 62 5;  
p634-44, ISSN 0741-5400 Journal Code: 8405628

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

By using a cloning method termed the \*signal\* \*sequence\* \*trap\* as well as by searching for chemokine homologous sequences in the database of expressed sequence tags, cDNA fragments potentially encoding novel CC chemokines were initially...

... a class of receptors on lymphocytes that is not shared by any other chemokines so far tested. Furthermore, we have identified CCR4 as the specific \*receptor\* for TARC, GPR-CY4/DRY6/CCR-L3/STRL22 as that for LARC (CCR6), and EB11/BLR2 as that for ELC (CCR7). Only the gene for...

7/3,K/9

DIALOG(R)File 155:MEDLINE(R)

(c) format only 2003 The Dialog Corp. All rts. reserv.

08997070 96355526 PMID: 8702936

**Molecular cloning of a novel T cell-directed CC chemokine expressed in thymus by \*signal\* \*sequence\* \*trap\* using Epstein-Barr virus vector.**

Imai T; Yoshida T; Baba M; Nishimura M; Kakizaki M; Yoshie O

Shionogi Institute for Medical Science, 2-5-1 Mishima, Settsu-shi, Osaka 566, Japan.

Journal of biological chemistry (UNITED STATES) Aug 30 1996, 271 (35)  
p21514-21, ISSN 0021-9258 Journal Code: 2985121R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**Molecular cloning of a novel T cell-directed CC chemokine expressed in thymus by \*signal\* \*sequence\* \*trap\* using Epstein-Barr virus vector.**

Predecessors of most secreted and cell surface molecules carry signal sequences at their amino termini. Here we describe an efficient \*signal\* \*sequence\* \*trap\* method and isolation of a novel CC chemokine. An expression library was constructed by inserting 5' portion-enriched cDNAs from phytohemagglutinin stimulated peripheral blood mononuclear...

... 41 clones directed expression of CD4 antigen on the cell surface. Among them were signal sequences of CD6, beta2-microglobulin, MGC-24, and T cell \*receptor\* epsilon-chain, and at least four novel potential signal sequences. A cDNA clone encoding a novel CC chemokine was isolated by using

one of the...

... specifically bound to T cell lines and peripheral T cells but not to monocytes or granulocytes. The binding of radiolabeled TARC to the high-affinity \*receptor\* Kd, 2.1 nM on Jurkat was displaced by TARC but not by interleukin-8, MIP-1alpha, RANTES, or MCP-1. TARC also bound to the promiscuous chemokine \*receptor\* on erythrocytes (Kd, 17 nM). TARC induced chemotaxis in T cell lines Hut78 and Hut102. Pretreatment of Hut78 with pertussis toxin abolished the TARC-induced cell migration. Collectively, T cells express a highly selective \*receptor\* for TARC that is coupled to pertussis toxin-sensitive G-protein. TARC may be a factor playing important roles in T cell development in thymus as...

7/3,K/10

DIALOG(R)File 155:MEDLINE(R)

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08802377 46163485 PMID: 8586432

**The murine lymphotoxin-beta \*receptor\* cDNA: isolation by the \*signal\* \*sequence\* \*trap\* and chromosomal mapping.**

Nakamura T; Tashiro K; Nazarea M; Nakano T; Sasayama S; Honjo T

Department of Medical Chemistry, Faculty of Medicine, Kyoto University, Japan.

Genomics UNITED STATES: Nov 20 1995, 30 (2): p312-9, ISSN 0888-7543

Journal Code: 8900135

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**The murine lymphotoxin-beta \*receptor\* cDNA: isolation by the \*signal\* \*sequence\* \*trap\* and chromosomal mapping.**

To isolate novel molecules involved in intercellular signaling during mouse embryogenesis, we employed the \*signal\* \*sequence\* \*trap\* (SST) method, a newly developed strategy for cloning secreted proteins and type I membrane proteins. We constructed an SST cDNA library of mouse embryonic heart...

... 2000 clones, and acquired 1 positive clone that appeared to contain the signal sequence. Homology searches revealed that this clone encodes the mouse lymphotoxin-beta \*receptor\* (LT beta-R). The deduced amino acid sequence of the mouse LT beta-R was 66% identical to that of the human LT beta-R...

...LT beta-R gene by linkage analysis with recombinant inbred mouse strains and found that its locus is very close to the tumor necrosis factor \*receptor\* 1 gene on chromosome 6.

Chemical Name: DNA, Complementary; Protein Sorting Signals; RNA, Messenger; Receptors, Tumor Necrosis Factor; lymphotoxin beta-specific \*receptor\*

7/3,K/11

DIALOG(R)File 155:MEDLINE(R)

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07829173 93342486 PMID: 8342023

**\*Signal\* \*sequence\* \*trap\*: a cloning strategy for secreted proteins and type I membrane proteins.**

Tashiro K; Tada H; Heilker R; Shirozu M; Nakano T; Honjo T

Department of Medical Chemistry, Kyoto University Faculty of Medicine, Japan.

Science (UNITED STATES: Jul 30 1993, 261 (5121): p600-3, ISSN

0036-8075 Journal Code: 0404511

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: N  
Record type: Completed

**\*Signal\* \*sequence\* \*trap\*: a cloning strategy for secreted proteins and type I membrane proteins.**

... sequences, such as those encoding intercellular signal-transducing molecules and receptors. The vector used in this system directed the cell surface expression of interleukin-2 \*receptor\* fusion proteins when inserts with signal sequences were cloned in-frame with the correct orientation. An expression cDNA library was constructed from a bone marrow...  
?ds

Set	Items	Description
S1	47	(SIGNAL (W) SEQUENCE (W) TRAP)
S2	4	S1 AND (ES OR (STEM (W) CELL?))
S3	2	S2 AND (DIFFERENTIATION)
S4	2	RD (unique items)
S5	2	S2 NOT S3
S6	0	S1 AND (IL6R OR IL6-R OR (IL6 (W) RECEPTOR))
S7	11	S1 AND (RECEPTOR)

?logout

06feb03 17:58:57 User259876 Session D460.2  
\$4.61 1.440 DialUnits File155  
\$3.15 15 Type(s) in Format 3  
\$3.15 15 Types  
\$7.76 Estimated cost File155  
\$1.96 TELNET  
\$9.62 Estimated cost this search  
\$9.99 Estimated total session cost 1.534 DialUnits

### Status: Signed Off. (8 minutes)